

EXHIBIT 3
FILED UNDER SEAL

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

GOOGLE LLC,)
)
PLAINTIFF,)
)
VS.) NO.
) 3:20-cv-06754-
SONOS, INC.,) WHA
)
DEFENDANT.)
_____)
SONOS, INC.,)
)
PLAINTIFF,)
) 3:21-CV-07559-
VS.) WHA
)
GOOGLE, LLC,)
)
DEFENDANT.)
_____)

C O N F I D E N T I A L

(THIS TRANSCRIPT HAS BEEN DESIGNATED
HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER)

ZOOM VIDEOTAPED DEPOSITION OF
ROBERT ANDREW LAMBOURNE
AS 30(B)(6) AND 30(B)(1)
MONDAY, JUNE 6, 2022

JOB NO. 5267960
REPORTED BY: D'ANNE MOUNGEY, CSR 7872

1 DEPOSITION OF ROBERT ANDREW LAMBOURNE, TAKEN ON BEHALF OF
2 GOOGLE AT SANTA BARBARA, CALIFORNIA, COMMENCING AT
3 9:04 A.M. ON MONDAY, JUNE 6, 2022, BEFORE D'ANNE MOUNGEY,
4 CSR 7872.

5
6
7 APPEARANCES OF COUNSEL:

8
9 FOR SONOS, INC.:

10 LEE SULLIVAN SHEA & SMITH, LLP

BY: AMY BRODY, ESQ.

11 656 W RANDOLPH STREET

SUITE 5W

12 CHICAGO, ILLINOIS 60661

1-312-754-9602

13 LEE@LS3IP.COM
14

15 FOR GOOGLE, LLC:

16 QUINN EMANUEL URQUHART & SULLIVAN, LLP

BY: MARC KAPLAN, ESQ.

17 191 N WACKER DRIVE

SUITE 2700

18 CHICAGO, ILLINOIS 60606

312.705.7400

19 MARCKAPLAN@QUINNEMANUEL.COM
20

21 ALSO PRESENT:

22 JEFF NICHOLS, VIDEOGRAPHER
23
24
25

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

I N D E X

WITNESS	EXAMINATION	PAGE
ROBERT ANDREW LAMBOURNE	BY MR. KAPLAN	7

E X H I B I T S

NO.	PAGE	DESCRIPTION
EXHIBIT 1069	11	GOOGLE LLC'S 30(B)(6) NOTICE OF DEPOSITION TO SONOS, INC.
EXHIBIT 1070	210	SONOS, INC.'S RESPONSES AND OBJECTIONS TO GOOGLE, LLC'S FED. R. CIV. P. 30(B)(6) NOTICE OF DEPOSITION
EXHIBIT 1071	17	PATENT NO.: US 10,848,885 B2
EXHIBIT 1072	17	PATENT NO: US 10,469,966
EXHIBIT 1073	210	EMAIL STRING JUNE 3, 2022,
EXHIBIT 1074	99	PATENT NO.: US 7,571,014
EXHIBIT 1075	124	CANADIAN INTELLECTUAL PROPERTY OFFICE
EXHIBIT 1076	144	MUSICCAST DIGITAL AUDIO SERVER OWNER'S MANUAL BATES STAMPED SONOS-SRV2-00032312 - 32459
EXHIBIT 1077	153	SONOS DIGITAL MUSIC SYSTEM USER GUIDE (APRIL 2005) PART 1
EXHIBIT 1078	153	SONOS DIGITAL MUSIC SYSTEM USER GUIDE (APRIL 2005) PART 2

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

I N D E X (CONTINUED):

E X H I B I T S

NO.	PAGE	DESCRIPTION
EXHIBIT 1080	174	PRODUCTS IN OUR SPACE BATES STAMPED SONOS-SRV2-00032289 - 32293
EXHIBIT 1081	185	E-MAIL THREAD DATED 7-9-03 BATES STAMPED SONOS-SRV2-00032575 - 32578
EXHIBIT 1082	190	HANDHELD UI SPECIFICATIONS BATES STAMPED SONOS-SRV2-00032475 - 32491
EXHIBIT 1083	192	PC UI SPECIFICATIONS BATES STAMPED SONOS-SRV2-00033494 - 33526
EXHIBIT 1097	22	SKETCHBOOK BATES STAMPED SONOS-SRV2-00026625 - 751
EXHIBIT 1098	18	SONOS UI SPECIFICATION; BATES STAMPED SONOS-SRV2-00026839 - 58
EXHIBIT 1099	18	E-MAIL STRING DATED 4-11-05 BATES STAMPED SONOS-SRV2-00026888 - 89
EXHIBIT 1100	200	SONOS, INC.'S SECOND SUPPLEMENTAL RESPONSES AND OBJECTIONS TO GOOGLE'S FIRST SET OF INTERROGATORIES

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

I N D E X (CONTINUED) :

EXHIBITS PREVIOUSLY MARKED FOR IDENTIFICATION
AND ATTACHED HERETO:

E X H I B I T S

NO.	PAGE	DESCRIPTION
EXHIBIT 6	127	SONOS "MACRO / PRESETS"
EXHIBIT 8	135	SONOS VIRTUAL ZONES AND ZONE GROUPING

SANTA BARBARA, CALIFORNIA

MONDAY, JUNE 6, 2022; 9:03 A.M.

THE VIDEOGRAPHER: Good morning. We're 09:03:24

going on the record at 9:03 a.m. on June 6, 2022.

This is media unit 1 of the video recorded

deposition of Robert Lambourne. And Robert

Lambourne is a 30(b)(6) witness for Sonos, Inc.,

taken by counsel for plaintiff in the matter of 09:03:53

"Google, LLC, versus Sonos, Inc.," filed in the

United States District Court for the Northern

District of California. The case number is

3:20-cv-06754-WHA, and also related case number of

3:21-CV-07559-WHA. 09:04:13

This deposition is being held virtually

via Zoom. My name is Jeff Nichols from the firm

Veritext Legal Solutions, and I am the videographer.

The court reporter is D'Anne Moungey from the firm

Veritext Legal Solutions. 09:04:31

Counsel will now state their appearances

and affiliations for the record.

MR. KAPLAN: This is Marc Kaplan for Google

from Quinn Emmanuel Urquhart & Sullivan.

MS. BRODY: Amy Brody of Lee Sullivan 09:04:45

Page 6

1 Shea & Smith on behalf of Sonos and the witness.

2 THE VIDEOGRAPHER: Thank you.

3 Will the court reporter please swear in the
4 witness.

5 09:04:54

6 ROBERT ANDREW LAMBOURNE,
7 having been first duly sworn by the reporter, was
8 examined and testified as follows:

9

10 THE VIDEOGRAPHER: Thank you 09:05:10

11 You may proceed, Counsel.

12 MR. KAPLAN: Thank you.

13

14 EXAMINATION

15 BY MR. KAPLAN: 09:05:13

16 Q Could you please state your full name for
17 the record.

18 A Yes. Robert Andrew Lambourne.

19 Q Can you please also state your home address
20 for the record. 09:05:23

21 A Yes. It's 3722 Cedar Vista, that's
22 C-E-D-A-R, Vista, Santa Barbara, California 93110.

23 Q Thank you.

24 Are you currently employed, Mr. Lambourne?

25 A Yes. 09:05:46

Page 7

1 Q Can you please state your current employer
2 and your current employer's work address for the
3 record.

4 A Yes. The workplace is Sonos and the
5 address is 614 Chapala Street, C-H-A-P-A-L-A, 09:05:58
6 Street, Santa Barbara, California 93101.

7 Q Do you understand you're under oath today
8 and you have sworn the oath to tell the truth?

9 A Yes.

10 Q Is there any reason that you can't testify 09:06:21
11 truthfully and accurately today?

12 A No.

13 Q Have you ever been deposed before?

14 A Yes.

15 Q How many times have you been deposed, prior 09:06:31
16 to this one?

17 A Prior to this one? I believe twice.

18 Q Who are the parties involved in the first
19 deposition?

20 A The first deposition was Sonos and Danon. 09:06:48
21 I think it was a holding company, but I can't
22 remember the name of it, but Danon was the company.

23 Q The second deposition, who were the parties
24 involved?

25 A Sonos and Google. 09:07:09

1 Q Were any of those depositions about the two
2 patents in this case, either the 966 patent or the
3 885 patent?

4 A I don't believe so, no.

5 Q Do you have any reason to believe the 09:07:27
6 testimony you gave in either of those two prior
7 actions was inaccurate?

8 A No.

9 Q So since you've been through the ringer
10 twice, I'll give you the ground rules again, but 09:07:40
11 I'll go through them relatively quickly.

12 So first, the court reporter is taking down
13 everything that you and I say, so we should try not
14 to talk over each other. Okay?

15 A Yes. 09:07:51

16 Q To the extent that you can, please try to
17 give verbal responses as opposed to head nods or
18 thumbs up or thumbs down.

19 Does that make sense?

20 A Yes. 09:08:04

21 Q If you don't understand my question, please
22 let me know so that I can either clarify it for you
23 or make sure that you do understand it. Okay?

24 A Yes.

25 Q Your counsel may object at points to my 09:08:16

Page 9

1 questions in the deposition, but as a general
2 matter, you will have to respond to the question,
3 unless your counsel instructs you not to answer.

4 Is that okay?

5 A Yes. 09:08:30

6 Q We can take breaks at any time, if you
7 would like. Just let me know and we will take one.
8 The only thing I ask is if there is a question
9 pending, that we get an answer to the question
10 before we take a break. Okay? 09:08:43

11 A Okay.

12 Q Is anyone else in the room where this
13 deposition is being taken right now?

14 A No.

15 Q Other than Zoom and -- well, strike that. 09:08:54

16 Are you familiar with Veritext Exhibit
17 Share?

18 A Yes. We used it before.

19 Q Are you logged into it now?

20 A Yes. I have to switch windows, but yes. 09:09:09

21 Q Well, what I wanted to say is besides this
22 Zoom session and the Exhibit Share, do you have
23 anything else open?

24 If so, please close it.

25 A I will make sure to do that. VPN software 09:09:28

1 are closed.

2 Okay. Zoom and Veritext are the only
3 things open.

4 Q So just to be clear, you don't have the
5 ability right now to chat with anyone or send 09:09:55
6 messages to anyone while you're in this deposition;
7 right?

8 A I do not.

9 Q I would like you to please turn to Exhibit
10 Share now and you should see in the marked exhibits 09:10:11
11 folder a number of exhibits.

12 A Yes, I see five.

13 MR. KAPLAN: Okay. Let's open the first
14 one, which is Exhibit 1069.

15 (Whereupon, Google's Exhibit 1069 was 09:10:29
16 marked for identification by the
17 Court Reporter.)

18 THE WITNESS: I need to arrange my window
19 so I can see you as well as the exhibit.

20 Okay. 09:10:53

21 BY MR. KAPLAN:

22 Q Exhibit 1069 is Google's Notice of
23 Deposition to Sonos.

24 Do you see that?

25 A Yes. 09:11:03

1 Q If you scroll down to page 7 of the
2 document, you'll see deposition topics, and under
3 those topics you will see Topic 1 and Topic 2.

4 Do you see that?

5 A I do, yes. 09:11:26

6 Q You've been designated on portions of
7 Topic 1 and Topic 2; is that fair?

8 A Let me read them.

9 Q Sure.

10 (Document reviewed by the witness.) 09:12:05

11 THE WITNESS: Okay. Can you ask the
12 question again, please?

13 BY MR. KAPLAN:

14 Q Sure.

15 Do you understand that you have been 09:12:08
16 designated to testify with respect to portions of
17 Topic Number 1 and portions of Topic Number 2?

18 A Can you clarify which portions?

19 Q Sure.

20 In fact, I have additional exhibits that 09:12:19
21 might help us.

22 MR. KAPLAN: So if you go out and go into
23 Exhibit 1070.

24 MS. BRODY: Counsel, if helpful, I'm
25 willing to represent the subject matter on which 09:12:28

Page 12

1 Mr. Lambourne is designated on behalf of Sonos, if
2 that would help.

3 MR. KAPLAN: That's fine. I also have
4 Cole's e-mail here that I was going to show to
5 Mr. Lambourne, but I'm happy to do it either way. 09:12:41

6 MS. BRODY: I'm sorry. I don't know if
7 he's seen the e-mail. I can represent -- you're
8 happy to ask him if he can confirm.

9 MR. KAPLAN: Okay.

10 MS. BRODY: If that's okay with you, just 09:12:55
11 to move it along.

12 MR. KAPLAN: That's fine, yeah. Go ahead.

13 MS. BRODY: Subject to Sonos' objections,
14 Sonos has designated Mr. Lambourne to testify in
15 response to Topic Number 1 on non-privileged 09:13:07
16 information with respect to the 885 and 966 patents,
17 with the exception that Mr. Lambourne is not
18 designated to testify with respect to information
19 concerning the prosecution of the patents.

20 And with respect to Topic Number 2, Sonos 09:13:24
21 has designated Mr. Lambourne to testify on
22 non-privileged information regarding conception and
23 reduction to practice and earliest known use of the
24 inventions, with respect to the 885 and 966 patents.

25 Mr. Lambourne is not designated to testify 09:13:42

1 concerning design, development and embodiments under
2 Topic 2.

3 BY MR. KAPLAN:

4 Q Mr. Lambourne, do you understand that you
5 have been designated on Topics 1 and 2 as Ms. Brody 09:13:55
6 just read into the record?

7 A Yes.

8 Q Okay. Topic Number 1 reads:

9 "The scope and content,
10 performance, advantages, 09:14:10
11 disadvantages, problems,
12 features, commercial or technical
13 benefits, or improvements of the
14 subject matter and technology
15 claimed in the Asserted Patents, 09:14:21
16 including the prosecution of the
17 applications that led to the
18 Asserted Patents, and an
19 Identification of persons most
20 knowledgeable about this Topic." 09:14:31
21 Do you see that's what Topic 1 says?

22 A Yes.

23 Q What did you do to prepare to testify with
24 respect to the portions of Topic Number 1 that
25 Ms. Brody just read into the record? 09:14:48

Page 14

1 A I met with attorneys and reviewed some
2 document that they shared.

3 Q What documents did you review to prepare to
4 testify about Topic Number 1?

5 A I looked at an e-mail thread that was sent, 09:15:02
6 a spec that I wrote, and the patents.

7 Q The e-mail thread, do you recall who was on
8 that e-mail thread?

9 A I don't recall everybody that might have
10 been cc'd, but I believe the exchange was between 09:15:35
11 myself and Andrew Schulert.

12 Q The specification you remember -- strike
13 that.

14 The specification that you just mentioned,
15 do you recall generally what that specification 09:15:56
16 disclosed?

17 A Yes. It was a spec I wrote for Zone
18 Scenes.

19 Q Did you speak with anyone besides your
20 attorneys to prepare for your testimony on Topic 09:16:17
21 Number 1?

22 A I did not.

23 Q With respect to Topic Number 2, that topic
24 reads:

25 "The facts and circumstances 09:16:35

09:17:03

Page 16

1 to Topic 2?

2 A I looked at e-mail threads, I looked at
3 spec I wrote, and I looked at the patents in
4 question.

5 Q Are you referring to a different e-mail 09:17:59
6 thread and specification than the ones we just
7 discussed with respect to Topic Number 1?

8 A The same.

9 Q So you reviewed on the same e-mail thread
10 and the same specifications to prepare for Topic 09:18:14
11 Number 1 and Topic Number 2?

12 A Correct.

13 Q And you also reviewed the patents to
14 discuss Topic Number 1 and Topic Number 2; right?

15 A Yes. 09:18:22

16 Q Do you see Exhibit 1071 is the 885 patent
17 and Exhibit 1072 is the 966 patent?

18 A Yes.

19 (Whereupon, Google's Exhibit 1071 and
20 Exhibit 1072 were marked for 09:18:51
21 identification by the Court Reporter.)

22 BY MR. KAPLAN:

23 Q These are the patents that you were
24 referring to that you reviewed in ordered to prepare
25 for your deposition here today? 09:18:56

Page 17

1 A Yes.

2 MR. KAPLAN: I'm introducing a few more
3 exhibits.

4 (Whereupon, Google's Exhibit 1098 and
5 Exhibit 1099 were marked for
6 identification by the Court Reporter.)

7 BY MR. KAPLAN:

8 Q Do you see Exhibits 1098 and 1099 in
9 Exhibit Share now?

10 A Not yet. 09:20:35
11 Should I refresh my page?

12 Q Actually, the best way to do it is if you
13 just click again on the explanation point
14 exclamation point folder, that should refresh it and
15 they'll pop up. 09:20:47

16 A Okay. Yes. Some more documents appeared.

17 Q Can you click into Exhibit 1098, please.

18 A Okay.

19 Q Exhibit 1098 is Bates labeled
20 SONOS-SVG2-00026839. 09:21:12

21 Do you see that?

22 A Yes.

23 Q Is this the Zone Scene specification that
24 you're referring to?

25 A Let me run through it, please. 09:21:32

Page 18

1 Q Sure.

2 (Document reviewed by the witness.)

3 THE WITNESS: Yes, that looks to be it.

4 BY MR. KAPLAN:

5 Q And Exhibit 1099, which is Bates labeled 09:22:13

6 SONOS-SVG2-00026888, do you see that?

7 A I do, yes.

8 Q Is this the e-mail thread that you were
9 referring to that you reviewed in preparation for
10 your deposition today? 09:22:38

11 A Is there a way to zoom in on the image?

12 Q There is. At least in my view, if you sort
13 of mouse over towards the bottom of the PDF --

14 A Right.

15 Q -- different controls will pop up, 09:22:55
16 including a zoom.

17 A Yes, I see it. Thank you.

18 (Document reviewed by the witness.)

19 THE WITNESS: Okay. Yes, that is the
20 e-mail. 09:24:06

21 BY MR. KAPLAN:

22 Q Let's turn back to Exhibit 1098.

23 A Which one was that one? Sorry.

24 Q It should be labeled 1098 --

25 A Oh, yeah. 09:24:31

1 Q -- in the title.

2 A Yes. I realize where the number is now.

3 Okay. Yes.

4 Q Do you have Exhibit 1098 up?

5 A I do, yes. 09:24:42

6 Q What is Exhibit 1098?

7 A It is a specification I wrote for -- it's a
8 user interface specification I wrote for a feature
9 or project that I call Zone Scenes.

10 Q When did you write this specification for 09:25:05
11 the feature project Zone Scenes?

12 A In 2005.

13 Q The front page of the document, there's a
14 created and modified date. The created date is
15 December 20th, 2005 and the modified date is 09:25:26
16 December 21st, 2005.

17 Do you see that?

18 A Yes.

19 Q Are those dates accurate?

20 A It looks to be accurate, yes. 09:25:41

21 Q When did you come up with the feature Zone
22 Scenes?

23 A Well, I was working on the ideas during
24 2005.

25 Q When during 2005 did you come up with the 09:26:14

1 idea for Zone Scenes?

2 A You're asking for a day?

3 Q Just I'm asking for what you know. So if
4 you know a specific month or a specific day or a
5 specific time of the year, I'm just trying to get 09:26:33
6 your knowledge on when you came up with the idea for
7 Zone Scenes.

8 A I would say early -- earlier in 2005. One
9 of the documents I looked at was a digital version
10 of a sketchbook that I made and I believe that I was 09:26:55
11 working on that in 2005. I can't remember the exact
12 date.

13 Q Would the sketchbook identify the date that
14 you began working on Zone Scenes?

15 MS. BRODY: Objection to form. 09:27:21

16 THE WITNESS: I think it would show the
17 date that I made some sketches around Zone Scenes.
18 I can't say with certainty the exact moment that I
19 conceived of the idea.

20 MR. KAPLAN: Mr. Lambourne, we're going to 09:27:51
21 come right back to 1097.

22 I have introduced a new exhibit -- strike
23 that.

24 We're going to come back to 1098, but I
25 have introduced Exhibit 1097. 09:28:02

1 (Whereupon, Google's Exhibit 1097 was
2 marked for identification by the
3 Court Reporter.)

4 BY MR. KAPLAN:

5 Q Exhibit 1097 is Bates numbered 09:28:06
6 SONOS-SVG2-00026625.

7 Do you see that?

8 A Yes.

9 Q Is this the sketchbook document that you
10 were just talking about? 09:28:26

11 A Let me zoom in.

12 Yes, that seems to be the sketchbook.

13 Q Based on this sketchbook, can you tell me
14 when you came up with the idea or project or feature
15 called "Zone Scenes"? 09:29:17

16 A I will have to look through the sketchbook
17 because the date is not on the front page, but I
18 think there are some pages with dates on it.

19 Okay. The third page, second zone groups,
20 and that's got a date of March 2nd, 2005. I think I 09:29:54
21 was using the American date format back then.
22 Possibly it was the 3rd of February, but I think
23 March 2nd, 2005.

24 Q So is there something on the third page
25 that sort of indicates that you had come up with the 09:30:21

1 idea for Zone Scenes by March 2nd, 2005?

2 A Yes. I was describing a thing called
3 macros and the images on the screen shows a
4 grouping -- or two groupings of rooms under the name
5 "morning," which would have been the name of the 09:30:52
6 scene or the macro, but I used those terms
7 interchangeably.

8 So yes, I believe this was sketches
9 relating to Zone Scenes.

10 Q What is a macro? 09:31:11

11 A Would you like a technical description or
12 from a user perspective?

13 Q In the context of page 3 of Exhibit 1097,
14 what did you mean by macro there?

15 A I would say a set of automated activities 09:31:32
16 or instructions that would put together rooms in
17 different groups or players representing rooms in
18 different groups that could then be invoked at a
19 later moment.

20 Q So when a macro -- a user would put 09:32:03
21 together rooms into groups; is that what you said?

22 A Yes.

23 Q In that context, what is a room?

24 A Yes. So it really represents an audio
25 device or a speaker that is -- or set of speakers in 09:32:38

1 some cases that is in a room. So, for instance, you
2 could have a speaker in the bedroom, which the user
3 would name "bedroom," a speaker in the living room,
4 which the user would name "living room," a speaker
5 in the dining room and so on. 09:32:57

6 Q You also said that the rooms that were in
7 the different groups could be invoked; is that
8 correct?

9 A Yes.

10 Q What did you mean by "invoked"? 09:33:46

11 A What I meant was that from a user
12 perspective, a user could create the macro to
13 effectively group a number of rooms.

14 And by that what I mean by "group," is to
15 play the music in synchrony so they're playing the 09:34:12
16 same music at the same time. Could create one or
17 more groups that would be saved and then at a later
18 time that same group could be -- I use the word
19 "invoked," but made to happen, reconstituted so that
20 those rooms would group themselves together. 09:34:39

21 Q Now, the invoking would happen after the
22 groups were created; is that right?

23 A Yes.

24 Q By "invoke," I think you said "made to
25 happen," but I may have misunderstood your 09:35:28

1 testimony.

2 So I'll just ask it again so you can
3 clarify.

4 What did you mean by "invoke"?

5 A Let me see if I can describe it. 09:35:38

6 Taken from a stage where they were not in a
7 group or in a different group and be made to be part
8 of the group, that's described in the scene, the
9 macro.

10 Q So is it the case that when the macro is 09:36:22
11 executed, that the scene is invoked?

12 MS. BRODY: Objection to form.

13 THE WITNESS: Can you define "executed"?

14 BY MR. KAPLAN:

15 Q Sure. 09:36:48

16 I'm trying to ask a broader question so I
17 can have you explain to me your view on it, which
18 is: After the scene has been invoked, what left is
19 available for the user to do with respect to that
20 scene or group?

09:37:05

21 MS. BRODY: Objection to form.

22 THE WITNESS: What's left for the user to
23 do?

24 Well, the rooms will be put into a stage
25 where they're grouped together so that they could

09:37:29

1 play music back in synchrony.

2 Would you like me to give you examples of
3 what could happen?

4 BY MR. KAPLAN:

5 Q I would like to ask you for examples, but 09:37:43
6 let me just clarify that last point first.

7 Is it the case that when the scene is
8 invoked, that the group will start playing music at
9 that point, or does that happen later?

10 MS. BRODY: Objection to form. I'll also 09:38:01
11 object to outside the scope.

12 THE WITNESS: It could be both.

13 BY MR. KAPLAN:

14 Q So when the scene is invoked, the group
15 might start playing back music in synchrony or it 09:38:19
16 might not; is that right?

17 A Yes.

18 Q You said you had an example of how a scene
19 might be used, I think.

20 Do I have that correct? 09:38:38

21 A Well, I want to describe in sort of a
22 user's point of view.

23 Q Please, from a user's point of view, what's
24 an example of how the Zone Scene might be used?

25 A Well, an example might be when the user 09:38:59

1 wakes up, they use a control device, a screen
2 interface, for example, and they could press a
3 button on their screen which would cause the Zone
4 Scene to apply.

5 Q Once the user pressed the button on their 09:39:32
6 screen to cause the Zone Scene to apply, what would
7 happen in the system?

8 MS. BRODY: Objection; outside the scope
9 and objection to form.

10 THE WITNESS: Well, when the user pressed 09:39:56
11 the button on the screen, the rooms that were
12 defined in the scene would -- well, the players that
13 are part of the group, so -- when I say "player," I
14 mean speaker.

15 So the speaker called the bedroom, the 09:40:16
16 speaker called the living room, the speaker called
17 the dining room, would say okay, I know that group,
18 I'm going to group together with those other
19 speakers.

20 BY MR. KAPLAN: 09:41:03

21 Q Let's look at page 3 of Exhibit 1097.

22 Are you there?

23 A Yes.

24 Q Can you describe for me what's shown on
25 page 3 of Exhibit 1097? 09:41:23

1 A Okay. Let me just scan it, please.

2 Okay. So this is a user interface that
3 would appear on a screen-based control device and
4 the illustrations I'm showing here is a scene or a
5 macro that the user has created called "morning,"
6 the name they've given to it.

09:42:02

7 And within it, they are saying there will
8 be two groups and the groups are defined there,
9 bedroom, living room, dining room in Group 1. Group
10 2 is patio and garden. And I've roughly sketched
11 out an interface where a user effectively adds rooms
12 to groups and can create a group to live within the
13 scene.

09:42:27

14 Q Below the boxes on the left-hand side,
15 there's a bullet that I believe reads:

09:42:52

16 "Rooms can only appear in one
17 group at a time."

18 Do you see that?

19 A I do, yes.

20 Q What did you mean by that?

09:43:04

21 A Well, in this illustration, we have a
22 single scene that's being created with two groups
23 within it. So if you recall, the user invokes the
24 morning scene, the rooms will know to go into those
25 groups, and I have said here a room can only appear

09:43:30

1 in one group at a time, meaning that when the user
2 invokes this particular scene, a room can't be in
3 two places at the same time for that scene.

4 So to give an example, if the user intends
5 for a playlist to be played in Group 1 and a 09:43:56
6 different playlist to be played in Group 2, the
7 dining room can't play both those pieces of music.
8 It lives within one group, within this particular
9 scene.

10 Q Were there other examples that you came up 09:44:20
11 with where rooms could appear in more than one group
12 at a time?

13 A Not in the same group within one scene, but
14 the room could appear in multiple scenes that were
15 saved. 09:44:51

16 Q Were there examples that you came up with
17 where a room could appear in multiple scenes that
18 were saved?

19 A Yes.

20 Q Can you direct me to those? 09:45:08

21 A In the sketchbook you mean, or in general?

22 Q Did you write down the example that you
23 just told me about, which was the rooms could be
24 included in more than one scene?

25 A I believe so. I would have to go through 09:45:35

1 the sketchbook.

2 Q But you believe that would be in the
3 sketchbook?

4 A Yes.

5 Q Okay. Can you please direct me to where in 09:45:46
6 the sketchbook the rooms are appearing in more than
7 one scene.

8 A Okay. I'm going to take a moment to go
9 through the sketchbook.

10 Q Okay. 09:46:11

11 THE WITNESS: The sketchbook contains
12 different topics.

13 (Document reviewed by the witness.)

14 THE WITNESS: Would you like me to identify
15 every instance where I thought about this, or an 09:52:50
16 example?

17 BY MR. KAPLAN:

18 Q Let's start with the first example you
19 found.

20 A Okay. Let me go back. I recognize this 09:53:00
21 document is quite long.

22 Here's an example. It's an annotation. I
23 identify which page number I'm on.

24 Q If you mouse over towards the bottom of the
25 PDF where it shows you the zoom, it shows at 127. 09:53:56

Page 30

1 A Okay. There's an example here on page 24.

2 Q So page 24 of Exhibit 1097, this one is
3 dated October 21st, 2005, at the top; is that right?

4 A Yes.

5 Q That's your -- is that your signature next 09:54:37
6 to October 21st, 2005?

7 A Yes.

8 Q Okay. Which part of page 24 of
9 Exhibit 1097 show rooms as part of multiple Zone
10 Scenes? 09:54:57

11 A There's a circular drawing in the middle
12 and then just below it says:

13 "Pick a room
14 grouping/profile, same room can't
15 be in two groups," for instance. 09:55:12

16 Q Did you find any earlier references to a
17 room being in -- well, strike that. I'm sorry.

18 I thought before you mentioned that the
19 room could be in multiple Zone Scenes, not multiple
20 groups. 09:56:12

21 Did I misunderstand you?

22 MS. BRODY: Objection to form.

23 THE WITNESS: Yes, I did say that. I think
24 in this case, I'm refer- -- like you see

25 grouping/profile, I'm referring to a scene here, 09:56:27

1 like a room can be a part of two scenes.

2 BY MR. KAPLAN:

3 Q What did you mean here by "room
4 grouping/profile"?

5 A I would have to read more of the page. One 09:56:44
6 moment.

7 (Document reviewed by the witness.)

8 THE WITNESS: Sorry. Can you repeat your
9 question, please?

10 BY MR. KAPLAN: 09:57:31

11 Q So in the square box below the circle, the
12 document reads, "Pick a room grouping/profile" and
13 then in parenthesis below that, "Same room can be in
14 two groups."

15 Do you see that? 09:57:47

16 A I do, yes.

17 Q In that box, what did you mean by "room
18 grouping/profile"?

19 A I think I was referring to -- well, the
20 word "profile" makes me think of -- I used the word 09:58:12
21 macro and profile and scene so much synonymously, so
22 here I think I'm saying the same room can be part of
23 two of those.

24 Q Why did you write "room grouping/profile"?

25 A I don't recall why I wrote those two words. 09:58:57

1 Q In the circle above the box where I've been
2 reading, I believe it reads, "Group profiles DCR
3 only."

4 Do you see that?

5 A Yes. 09:59:25

6 Q What is a "group profile"?

7 A I think it's referring to a group of rooms
8 that can be saved.

9 Q Is there a difference between a group
10 profile and a screen? 10:00:06

11 A I don't believe so.

12 Q What did you mean by "DCR only"?

13 A Well, DCR refers to a product we had made
14 called -- well, it's a shortening of desktop
15 controller. 10:00:43

16 So DCR refers to the desktop controller,
17 which is our control application that we made to run
18 on Windows and Mac operating systems, so the
19 controller you would use on your computer.

20 Q As you were looking for instances where a 10:01:11
21 room could be in two or more scenes, or two or more
22 profiles, did you find that identified on any page
23 earlier than "December" 21st, 2005?

24 MS. BRODY: Objection to form.

25 I believe you said "December." 10:01:38

1 MR. KAPLAN: Oh. Thank you. I meant to
2 say October 21st, 2005.

3 BY MR. KAPLAN:

4 Q I can re-ask the question if it's not clear
5 to you, Mr. Lambourne. 10:01:49

6 A Yes, please. Please repeat it.

7 Q As you're looking for instances where a
8 room could be in two or more scenes or two or more
9 profiles, did you find that identified on any page
10 earlier than October 21st, 2005? 10:02:04

11 A In reading this document today, I did not
12 find one.

13 Q Was naming an important process for your
14 Zone Scene feature?

15 MS. BRODY: Objection to form. 10:02:31

16 THE WITNESS: Define "important."

17 BY MR. KAPLAN:

18 Q Would you consider the ability to name a
19 scene to be an important, in your perspective, part
20 of the Zone Scene feature? 10:03:13

21 MS. BRODY: Objection to form.

22 THE WITNESS: I think it would make it
23 easier for a user to understand if it had a name.

24 BY MR. KAPLAN:

25 Q But the naming aspect of the Zone Scene 10:03:55

1 wasn't necessarily an important part of that feature
2 for you?

3 MS. BRODY: Objection to form.

4 THE WITNESS: Well, I believe in my spec I
5 included the naming of the scene, so it would have 10:04:20
6 been at least important enough for me to put it into
7 a design.

8 BY MR. KAPLAN:

9 Q Would it be possible to implement a Zone
10 Scene without naming the Zone Scene? 10:04:37

11 MS. BRODY: Objection to form.

12 THE WITNESS: I suppose it would be
13 possible. My designs include my -- my designs
14 included a name so that the user could refer back to
15 it later. 10:05:15

16 BY MR. KAPLAN:

17 Q Was an important part of the Zone Scene
18 feature that it was saved for use later by a user?

19 A Yes.

20 Q How would a user use the Zone Scene later 10:05:40
21 if the Zone Scene did not have a name?

22 MS. BRODY: Objection to form.

23 THE WITNESS: Well, it would have to be
24 identified by the user, the name is an easy way to
25 identify -- to identify it. 10:06:23

1 BY MR. KAPLAN:

2 Q What other ways could a user have
3 identified a Zone Scene, besides the name?

4 MS. BRODY: Objection to form, outside the
5 scope. 10:06:47

6 THE WITNESS: Are you asking me to describe
7 all the possible ways or an example?

8 BY MR. KAPLAN:

9 Q What's an example?

10 MS. BRODY: Same objections. 10:07:16

11 THE WITNESS: Could be a name generated by
12 a computer.

13 BY MR. KAPLAN:

14 Q Wouldn't the Zone Scene then still have a
15 name? 10:07:32

16 A Sorry. When you said is it important to
17 name the Zone Scene, I thought you were referring to
18 a name that the user would give it.

19 Q Let me ask the question a little bit more
20 broadly. 10:07:58

21 Beyond naming the Zone Scene, either via an
22 automated name or a user specified name, how would
23 the user identify the Zone Scene?

24 MS. BRODY: Objection to form, outside the
25 scope. 10:08:15

1 THE WITNESS: Well, standing here today, I
2 think the name would be a good way of doing it.

3 BY MR. KAPLAN:

4 Q Can you think of any other examples where
5 you would not use a name to identify the Zone Scene? 10:08:28

6 MS. BRODY: Same objections.

7 THE WITNESS: Sorry, Mr. Kaplan, are you
8 asking me to generate ideas of what I think could
9 happen?

10 BY MR. KAPLAN: 10:08:51

11 Q I'm just asking if you can think of any
12 other examples of how you would implement a Zone
13 Scene without using a name to identify it?

14 MS. BRODY: Objection to form, outside the
15 scope. 10:09:02

16 THE WITNESS: Could have an icon, for
17 instance.

18 BY MR. KAPLAN:

19 Q Any other examples?

20 A Not that I can think of standing here at 10:09:13
21 this moment.

22 Q The sketchbook that we've been looking at,
23 why did you create that?

24 A Well, part of my job back then, still is,
25 to generate ideas and I sketched the ideas in a 10:10:00

1 sketchbook.

2 Q How did you maintain your sketchbook?

3 A Can you ask a more specific question,
4 please?

5 Q Where did you keep your sketchbook? 10:10:36

6 A Are you referring to this particular
7 sketchbook?

8 Q For this particular sketchbook, was it a
9 physical sketchbook that you kept and added to over
10 time? 10:10:58

11 A I think that's likely, yes.

12 Q Do you still have access to this
13 sketchbook?

14 A No.

15 Q What happened to this sketchbook? 10:11:15

16 A I believe our patent attorneys have it in
17 their possession.

18 Q When did you give this sketchbook to the
19 patent attorneys?

20 A I can't recall. I can't recall when I did 10:11:35
21 that.

22 Q Do you remember roughly?

23 A Presumably after October '05. I don't
24 recall when.

25 MS. BRODY: Counsel, we've been going a 10:12:23

1 little more than an hour.

2 Are we able to take a short break?

3 MR. KAPLAN: Sure.

4 THE VIDEOGRAPHER: We're going off the

5 record. The time is 10:12. 10:12:30

6 (Whereupon, a recess was held

7 from 10:12 a.m. to 10:22 a.m.)

8 THE VIDEOGRAPHER: We're back on the

9 record. The time is 10:22.

10 BY MR. KAPLAN: 10:22:33

11 Q Welcome back, Mr. Lambourne.

12 You understand that you're still under
13 oath; right?

14 A Yes.

15 Q If you could go back to page 24 of 10:22:41

16 Exhibit 1097. Let me know when you're there.

17 A Okay. I'm there.

18 Q The top of this page reads "alarm/zone
19 profiles/groups."

20 Do you see that? 10:23:08

21 A Yes.

22 Q How did the alarm clock function relate to
23 zone profiles?

24 MS. BRODY: Objection to form, outside the
25 scope. 10:23:23

Page 39

1 THE WITNESS: Yes. The alarm clock was a
2 feature I worked on where effectively the user could
3 create a wake-up alarm or an alarm that would play
4 any other time of day, could play a piece of music
5 of their choosing. 10:23:51

6 So you could, for instance, wake to your
7 favorite radio station in the bedroom, or at
8 5:00 o'clock the music could change in the kitchen
9 to be a playlist that you pick.

10 So it basically turned our system into a 10:24:13
11 time-based system whereby music could play a certain
12 time, day of the week.

13 And then the way that the room or the zone
14 profiles, which related to it, is a user could pick
15 what room or group of rooms should be playing when 10:24:37
16 the alarm triggered at the appropriate time.

17 BY MR. KAPLAN:

18 Q Was the alarm clock feature part of the
19 Zone Scene or a Zone Scene itself?

20 Let me ask a better question. 10:25:04

21 Was the alarm clock a Zone Scene?

22 MS. BRODY: Objection to form.

23 THE WITNESS: No. The alarm clock was not
24 a Zone Scene.

25 /// 10:25:20

1 BY MR. KAPLAN:

2 Q Why not?

3 A Well, an alarm that would set up would have
4 a number of attributes, which were -- I mean, the
5 main component, every component, but the main 10:25:38
6 component was what time it should play, on what day
7 or days, what music it should play, and what room or
8 room groups would play the music.

9 So the alarm clock used the Zone Scene.

10 Q When you say, "The alarm clock used the 10:26:21
11 Zone Scene," do you mean that the alarm clock was --
12 well, strike that.

13 What did you mean by when you said the
14 alarm clock was using the Zone Scene?

15 A I think in general terms it means that the 10:26:36
16 alarm clock would trigger the Zone Scene to group
17 together.

18 Q Could we turn to page 4 of Exhibit 1097.

19 A Yes.

20 Q Do you see the top of the page it says 10:27:35
21 "problem" and then under that "party mode" and
22 continues on from there?

23 A Yes.

24 Q What was party mode in this context?

25 A Yes. So party mode was a term we used for 10:27:49

1 when all the rooms were grouped together, or all
2 zones that's written in one of the screens were
3 grouped together playing music at the same time.

4 Q When you described zones or rooms, was
5 there a difference between those two terms? 10:28:46

6 MS. BRODY: Objection to form.

7 THE WITNESS: In this case, they're the
8 same.

9 BY MR. KAPLAN:

10 Q What is the difference, if any, between 10:29:11
11 zones and rooms, for you?

12 MS. BRODY: Objection to form.

13 THE WITNESS: Well, in this case, this
14 point in the design, we effectively -- it refers to
15 a speaker or an amplifier that's able to feed 10:29:44
16 speakers. And our idea was that you would put one
17 of these speakers in each room, but I think we
18 called it zone to mean in theory you could have more
19 than one speaker in a single room, so we used the
20 word "zone." 10:30:14

21 BY MR. KAPLAN:

22 Q So if you had multiple speakers within the
23 same room, then you would potentially have multiple
24 zones within the same room; am I understanding you
25 correctly? 10:30:30

1 A In theory, yes. We imagine that people
2 would have one speaker per room; one in the bedroom,
3 one in the dining room, one in the kitchen. In
4 theory, someone could put more than one speaker in a
5 room, so we used the word "zone." 10:30:49

6 Q Okay. Why was -- well, strike that.

7 At the bottom of page 4 in Exhibit 1097,
8 the box furthest down is titled "linked to," and
9 then below it there are a few entries on different
10 lines. There's one that says "all zones - party 10:31:28
11 mode," one that says "downstairs zone group," one
12 that says "Sunday morning," one that says "bedroom,"
13 and one that says "kitchen."

14 Do you see that?

15 A Yes. 10:31:42

16 Q Why was the "all zones mode" called party
17 mode?

18 A It was a friendlier name than saying all
19 zones.

20 Q What do you mean it was a friendlier way of 10:32:10
21 saying all zones?

22 A Well, from the point of view of we felt it
23 would be more appealing to a user to enter party
24 mode than in a more technical description of all
25 zones. 10:32:29

1 Q Was there any particular use case that the
2 party mode was directed at?

3 MS. BRODY: Objection to form.

4 THE WITNESS: Could you ask the question
5 again, please, Mr. Kaplan. 10:32:50

6 I'm not sure I understood.

7 BY MR. KAPLAN:

8 Q When you came up with the name "party
9 mode," was there any particular use case that you
10 were addressing? 10:33:01

11 MS. BRODY: Objection to form.

12 THE WITNESS: I think it was the idea that
13 putting all your zones in one group and playing
14 music in them would feel like a good thing and
15 that's why we gave it a good time name, party mode. 10:33:37

16 BY MR. KAPLAN:

17 Q In the box at the bottom of page 4 of
18 Exhibit 1097, at the top there's "all zones - party
19 mode" and then at the bottom there's two different
20 lines, one that says "bedroom" and one that says 10:33:58
21 "kitchen."

22 You see that; right?

23 A Yes.

24 Q In this example, would bedroom have also
25 been a part of the party mode? 10:34:09

1 A This case, yes, because party mode is -- it
2 says all zones and bedroom would have been a zone,
3 so bedroom would have been a part of party mode in
4 this case.

5 Q Can we turn to page 29 of this document, 10:34:57
6 please.

7 Are you there?

8 A Okay. Yes.

9 Q At the top of page 29 of Exhibit 1097,
10 there's a date October 21st, 2005, I believe your 10:35:28
11 signature, and then the word "room configurations."

12 Do you see that?

13 A Yes.

14 Q And then below the date, there's an
15 underlining phrase "perma groups DCR." 10:35:45

16 Do you see that?

17 A Yes.

18 Q What did you mean by "perma groups DCR"?

19 A Perma group I think refers to permanent
20 groups and DCR is the desktop controller product 10:36:09
21 that I referred to earlier.

22 Q What was a permanent group?

23 A I think I defined it roughly as a zone
24 group that wouldn't expect to break apart into
25 constituent zones very often. 10:36:51

1 Q Can you give me an example of a perma
2 group?

3 MS. BRODY: Objection to form.

4 THE WITNESS: Let me think.

5 An open planned house where the kitchen and 10:37:24
6 the dining areas are a single space, you might have
7 two zone groups or two zones in that space and the
8 user may say, look, I want these two zones to always
9 be grouped together.

10 BY MR. KAPLAN: 10:37:55

11 Q How did that differ from a non-perma group
12 that the user would create grouping the same rooms
13 together?

14 MS. BRODY: Objection to form, outside the
15 scope. 10:38:10

16 THE WITNESS: They might appear as more of
17 an item in a menu, the two zones that are
18 permanently grouped together.

19 BY MR. KAPLAN:

20 Q Would the two zones that are not 10:38:47
21 permanently grouped together but temporarily grouped
22 together also appear as one item in a menu?

23 MS. BRODY: Objection to form.

24 THE WITNESS: They could.

25 /// 10:39:20

1 BY MR. KAPLAN:

2 Q I'm not sure what distinction you're
3 drawing between the perma groups and the non-perma
4 groups.

5 Let me try to ask just a broader question. 10:39:26

6 Well, strike that.

7 Were perma groups added to the Sonos
8 products at some point?

9 MS. BRODY: Objection to form, outside the
10 scope. 10:39:45

11 THE WITNESS: Not as described here, no.

12 BY MR. KAPLAN:

13 Q Why did you say, "Not as described here"?
14 Were they added in some other form to the
15 products? 10:40:23

16 MS. BRODY: Objection to form, outside the
17 scope.

18 THE WITNESS: Not as described -- I say
19 that because we created a feature called stereo pair
20 where two speakers would be permanently grouped 10:40:42
21 together to be the left and right channel of the
22 audio stream, so they were a different kind of
23 grouping than our regular dynamic grouping.

24 BY MR. KAPLAN:

25 Q Can you turn to page 42 of Exhibit 1097, 10:41:31

1 please.

2 A Yes.

3 Q Page 42 has at the top in underlined "room
4 groupings" and under it says "back to it."

5 Do you see that? 10:42:09

6 A Yes.

7 Q Then there's annotation that says "macros"
8 and below that there is a "morning mode," then even
9 further below it says "macros" and in parenthesis,
10 "room configurations." 10:42:31

11 Do you see that?

12 A Yes.

13 Q Below the macros, in parenthesis, room
14 configurations, there's a box with three entries.
15 One says "party mode," one says "morning mode," and 10:42:43
16 the final says "working mode."

17 Do you see that?

18 A Yes.

19 Q Were those examples of zone scenes?

20 A Yes. 10:43:03

21 Q How do you know?

22 A Because I designed it.

23 Q Are you familiar with standalone mode?

24 A Yes.

25 Q What is standalone mode? 10:43:35

Page 48

1 A I mean, broadly described as a speaker or a
2 zone that's not joined to other zones, or not
3 grouped with other zones.

4 Q Did you describe in your sketchbook what
5 would happen when a standalone speaker was joined to 10:44:13
6 a group that was already existing?

7 MS. BRODY: Objection to form.

8 THE WITNESS: Can you repeat the question,
9 please?

10 BY MR. KAPLAN: 10:44:36

11 Q Sure.

12 Did you describe in your sketchbook what
13 would happen when a standalone speaker was joined to
14 a group that was already existing?

15 A I can't say if it's in the sketchbook. 10:44:49

16 Q Do you recall writing down what would
17 happen when a standalone mode speaker was joined to
18 an existing group?

19 A I feel sure I would have written it down
20 somewhere, but I can't recall exactly where. 10:45:28

21 Q Would you have written it down in the 985
22 or 966 patents?

23 MS. BRODY: Objection to form.

24 THE WITNESS: I don't recall exactly it
25 being in the patents standing here today, but that 10:46:02

1 was a key part in behavior of the Sonos system.

2 BY MR. KAPLAN:

3 Q What do you mean -- excuse me.

4 What do you mean when you say the --

5 joining the standalone speaker to an existing group 10:46:26

6 was a key part of the behavior of the Sonos system?

7 A Well, again, from a user perspective, if
8 there was a group of rooms, say, the living room and

9 the dining room grouped together and the kitchen

10 wasn't part of that group, it was standing alone, 10:46:57

11 then the kitchen could be joined to that group.

12 Q And in the Sonos system, what was the
13 behavior of the standalone mode speaker when it was
14 joined to that group?

15 MS. BRODY: Objection to form, outside the 10:47:19
16 scope.

17 THE WITNESS: The overall behavior is when
18 that standalone zone was joined to a group of zones,
19 then it would be able to play a music stream
20 synchronized, so all in synchrony. 10:48:01

21 BY MR. KAPLAN:

22 Q If the existing group was already playing
23 music in synchrony, what would the behavior of the
24 standalone speaker become after it was added to that
25 group? 10:48:25

1 MS. BRODY: Objection to form, outside the
2 scope.

3 THE WITNESS: Well, if the standalone
4 player was to join the group of -- the group of
5 Sonos that were playing already, then that 10:48:53
6 standalone speaker would join the group and it would
7 also play the music that the other two were playing,
8 if the other two were already playing music.

9 BY MR. KAPLAN:

10 Q What if the standalone speaker was playing 10:49:15
11 music and the existing group was not playing music
12 and the standalone speaker was added to the group,
13 what would the behavior of the standalone mode
14 speaker become after it was added to the group?

15 MS. BRODY: Objection to form, outside the 10:49:37
16 scope.

17 THE WITNESS: We've had different behaviors
18 of that capability over the years.

19 BY MR. KAPLAN:

20 Q Let me give you a timeframe for my 10:50:13
21 question.

22 In the 2005 timeframe, what would the
23 behavior of a standalone mode speaker that was
24 playing music become after that standalone mode
25 speaker was added to a group that was not playing 10:50:31

1 music?

2 MS. BRODY: Objection to form, outside the
3 scope.

4 THE WITNESS: I believe at the time you
5 reference, the -- all the -- all the speakers that 10:50:52
6 were playing the music -- I mean, this is how the
7 system worked at that time is what I mean, would
8 play the music that the standalone speaker wasn't
9 playing.

10 BY MR. KAPLAN: 10:51:14

11 Q So the speakers in the existing group in
12 that example would match where the standalone
13 speaker was playing and become one group playing
14 that music synchronously; is that right?

15 MS. BRODY: Objection to form. 10:51:38

16 THE WITNESS: Standing here today, I can't
17 say with certainty. Like I said, we've had a number
18 of behaviors in the product that we made when that
19 happens, but I can't recall exactly the behavior
20 that we had in the timeframe that you're talking 10:51:54
21 about.

22 BY MR. KAPLAN:

23 Q Do you recall when the behavior of how the
24 standalone mode speaker being joined to the group of
25 speakers changed? 10:52:06

1 Do you recall when those changes happened?

2 MS. BRODY: Objection to form, outside the
3 scope.

4 THE WITNESS: Standing here today, I don't
5 recall that. 10:52:24

6 BY MR. KAPLAN:

7 Q You mentioned there have been a few
8 different implementations over time, though; is that
9 fair?

10 A Yes. 10:52:33

11 Q Do you recall what those implementations
12 have been?

13 MS. BRODY: Objection to form, outside the
14 scope.

15 THE WITNESS: I can think of three 10:53:08
16 behaviors. The music would stop, the music would
17 play what the standalone speaker was playing, or I
18 think we would give a choice to the user of what
19 they wanted to do.

20 BY MR. KAPLAN: 10:53:40

21 Q As far as you recall, those were three
22 different implementations that have been used by
23 Sonos over time; is that right?

24 MS. BRODY: Objection to form, outside the
25 scope. 10:53:58

1 THE WITNESS: Standing here today, that's
2 what I recall, yes.

3 BY MR. KAPLAN:

4 Q At any point do you recall Sonos
5 implementing the standalone mode speaker joining an 10:54:11
6 existing group by having the standalone mode speaker
7 continue playing its own music, regardless of what
8 the group was playing?

9 MS. BRODY: Objection to form, outside the
10 scope. 10:54:38

11 THE WITNESS: So you're saying the
12 standalone speaker has joined an existing group of
13 speakers and is part of that group?

14 BY MR. KAPLAN:

15 Q Correct. 10:55:07

16 A It would not play -- if it's part of a
17 group, it would not play independently of the other
18 two speakers.

19 Q So I think that we're on the same page, but
20 I'm going to -- because this is a bit of a 10:55:32
21 complicated scenario, I'm going to try to spell it
22 out in a little bit more detail just to confirm that
23 I understand your testimony.

24 So let's say that I have a zone that's
25 called A and that zone A is currently in standalone 10:55:49

1 mode, and I also have zones B and C and zones B and
2 C are grouped and are currently playing music
3 synchronously.

4 Are you with me so far?

5 A Yes. 10:56:11

6 Q In the case where zone A is joined to group
7 B and C, zone A would not continue playing the music
8 that it was playing before in any of Sonos'
9 implementations; is that right?

10 MS. BRODY: Objection to form, outside the 10:56:41
11 scope.

12 THE WITNESS: In your scenario, you're
13 describing these two situations where both A is
14 already playing music and the group B and C is
15 already playing music? 10:57:00

16 BY MR. KAPLAN:

17 Q That's correct.

18 A Are you asking about any of our -- sorry,
19 I'm mumbling -- any of the implementations?

20 Q By Sonos, over time, correct. 10:57:24

21 A I believe those one implementation where we
22 would in that case -- I mean, I can recall two
23 implementations: One where the system would decide
24 basically what is played, depending on the ordering
25 of the grouping. And another implementation whereby 10:58:03

1 we would ask the user what they -- which music of
2 the two they are playing, which music they would
3 want to play.

4 Q Let me change the scenario slightly.

5 So now we still have standalone speaker A 10:58:33
6 and we have grouped speakers B and C, but now
7 speaker A is not playing any music and speakers B
8 and C that have been joined together are playing
9 music synchronously.

10 Are you with me so far? 10:58:53

11 A Yes.

12 Q What implementations has Sonos deployed
13 where speaker A is joined to speakers B and C with
14 regard to the behavior of speaker A?

15 MS. BRODY: Objection to form, outside the 10:59:15
16 scope.

17 THE WITNESS: I believe we've had the
18 implementation where A is joined to B and C, and A
19 is not already playing music, then it would play
20 what B and C are playing. 10:59:49

21 And I think we've had the implementation
22 where both speakers may not play music, depending on
23 the order in which they were linked as a group, but
24 I can't recall the exact details.

25 /// 11:00:17

1 BY MR. KAPLAN:

2 Q In the latter scenario, would all the
3 speakers, A, B and C, after A was joined to the
4 group, stop playing music?

5 MS. BRODY: Objection; outside the scope. 11:00:30

6 THE WITNESS: I believe they could.

7 BY MR. KAPLAN:

8 Q You believe they could stop playing music;
9 right?

10 MS. BRODY: Same objection. 11:00:56

11 THE WITNESS: Yes, if my recollection is
12 correct.

13 BY MR. KAPLAN:

14 Q Did you consider -- let me tee this one up
15 again with an example because they're a little 11:01:26
16 complicated.

17 So let's go back to the scenario where we
18 have zone A playing music and then zones B and C,
19 which have been joined together, playing some other
20 music and A is joined to B and C. 11:01:43

21 Are you with me so far?

22 A Yes.

23 Q Did Sonos consider implementing the outcome
24 where A would continue to play different music than
25 what B and C were playing? 11:02:08

1 MS. BRODY: Objection to form, outside the
2 scope.

3 THE WITNESS: Would A play different music
4 to B and C when the user has put A, B and C into one
5 group? 11:02:26

6 BY MR. KAPLAN:

7 Q Correct.

8 A I can't say with certainty whether it was
9 ever considered by Sonos. It was not part of this
10 design. 11:02:58

11 Q As a designer, what do you think of that
12 implementation?

13 MS. BRODY: Objection to form, outside the
14 scope.

15 THE WITNESS: Well, we're talking here 11:03:25
16 about the grouping together of speakers with the
17 intent of playing music in synchrony. So as far as
18 my design, I mean, the design was created to allow
19 the use -- well, allow the user to play music in
20 synchrony, so I don't really understand the 11:04:01
21 scenario -- or maybe I'm not thinking it through or
22 haven't thought of the very option, but I think the
23 goal of the user is to play music in synchrony if
24 they're created as a group.

25 Now, let's be clear. Groups and scenes in 11:04:19

1 this are not the same thing; right? I'm talking
2 about a group of rooms that are put together with
3 the intent of playing music in synchrony.

4 BY MR. KAPLAN:

5 Q You said at the end of your answer, "Group 11:04:46
6 and scenes in this are not the same thing."

7 What did you mean by that?

8 A Well, I can have a scene illustrated at
9 one -- let's get to the bottom of the screen where
10 there's more than one group created as part of the 11:05:08
11 scene.

12 So an example might be living room, dining
13 room, and kitchen, a group with the intent of them
14 playing in synchrony, or have the ability to play in
15 synchrony. They don't have to be playing at that 11:05:23
16 moment when the group is invoked. And then a
17 different group, which could be the outside rooms,
18 the patio or the garden, would be grouped together
19 so they could play in synchrony.

20 So, in effect, there are two room groups 11:05:40
21 within one in this scene.

22 Q Do there have to be multiple groups within
23 a scene -- well, strike that.

24 Let me try to ask a better question.

25 Does the scene have to create multiple 11:06:00

1 groups or could it create just a single group?

2 A The scene could create a single group.

3 Q Okay. In the examples that we've been

4 talking about with speaker A and then -- sorry.

5 Strike that. 11:06:40

6 In the examples we've been talking about

7 with zone A and zones B and C, could that be

8 implemented using scenes?

9 MS. BRODY: Objection to form, outside the

10 scope. 11:06:57

11 THE WITNESS: You mean where we've taken

12 the situation from zone A not playing, zone B and C

13 playing, could they be grouped together as one

14 scene?

15 BY MR. KAPLAN: 11:07:29

16 Q Correct.

17 A Yes.

18 Q Taking the example we've been using with

19 zone A and standalone mode and zones B and C grouped

20 together, what are the different behaviors that you 11:07:53

21 could have for zone A after it's been added to group

22 B and C?

23 MS. BRODY: Objection to form, outside the

24 scope.

25 THE WITNESS: You mean if they were invoked 11:08:18

1 as part of a Zone Scene?

2 BY MR. KAPLAN:

3 Q Correct.

4 A Well, they would be grouped together with
5 the intent of them playing in synchrony. 11:08:34

6 Q Why would they be grouped together with the
7 intent of playing in synchrony?

8 A Well, I mean, more broadly, a Zone Scene
9 can have a number of further attributes; right? So
10 a Zone Scene could be configured to play a specific 11:09:13
11 piece of music when invoked, and there I'm talking
12 more broadly what the zone -- the different
13 attributes of a Zone Scene.

14 Q What are the different attributes of the
15 Zone Scene that you contemplated? 11:09:52

16 A I mean, I can think of two in broad levels.
17 One would be the volume at which the speakers might
18 play where they're joined together. The music that
19 they could be playing, or the music could be stopped
20 even if the Zone Scene was invoked. 11:10:33

21 Q Mr. Lambourne, can we turn to Exhibit 1098.

22 A Okay.

23 Q Exhibit 1098 is SONOS-SVG2-00026839. It's
24 titled "Sonos UI Specification" and then beneath
25 that it says "Zone Scenes." And then it also says 11:12:15

1 also called "Zone Configurations."

2 Do you see that?

3 A Yes.

4 Q Was this a document that you authored?

5 A Yes. 11:12:30

6 Q And you reviewed this document when
7 preparing for your deposition today; right?

8 A Yes.

9 Q The date on this document is -- strike
10 that. 11:12:46

11 Let's go to page 2 of the document, please.

12 A Yes.

13 Q In the first paragraph -- I'll read the
14 first paragraph into the record.

15 First paragraph reads: 11:13:09

16 "The Zone Scene feature
17 allows the user to arrange the
18 zones into groups using one
19 single command. This is similar
20 to the current Party Mode setting 11:13:23
21 that is available. However, the
22 Zone Scene feature is much more
23 flexible and powerful."

24 Do you see that?

25 A Yes. 11:13:36

1 Q You believe that that's accurate; correct?

2 MS. BRODY: Objection to form.

3 THE WITNESS: In so much as -- yeah.

4 That second sentence is similar to the

5 Party Mode, but it's not the same as the Party Mode 11:14:00

6 described in the zone scenes.

7 BY MR. KAPLAN:

8 Q The Party Mode setting is a Zone Scene;

9 right?

10 MS. BRODY: Objection to form. 11:14:20

11 THE WITNESS: Yeah. I think I describe a

12 Party Mode as an example of a Zone Scene that can be

13 set up, created.

14 BY MR. KAPLAN:

15 Q You wrote here: 11:14:45

16 "However, the Zone Scene

17 feature is much more flexible and

18 powerful."

19 What did you mean by that?

20 A I meant that the features -- the feature I 11:15:08

21 created would give more control to the user than

22 what existed at the time in the Sonos system.

23 Q How would the Zone Scene feature give more

24 control to the user than what existed at the time of

25 the Sonos system? 11:15:35


```
5   The zone scenes idea would allow them to set up           11:16:15
6   groups that they predefined in time, and those
7   groups would be saved and then they could be invoked
8   later.
```

12 Q Why did you think it was advantageous for a
13 user not to have to manually link or unlink zones?

16	Q	How so?
----	---	---------

18	Similar to what I just described. So a	
19	user -- when this feature would still be able to	
20	manually create and breakdown zone groupings, when	11:18:07
21	this feature would allow them to think ahead of	
22	time, perhaps, of what zone groupings they would	
23	like to achieve in their home or at different times	
24	in their home and would allow the system to generate	
25	those groupings without them having to manually go	11:18:33

1 through the process of linking zones together.

2 Q Did you think that there would be user
3 dissatisfaction with having to manually link zones
4 or groups together?

5 MS. BRODY: Objection to form. 11:18:56

6 THE WITNESS: Yes.

7 BY MR. KAPLAN:

8 Q Why?

9 A Well, it would have to go through the
10 process of grouping rooms together thinking about 11:19:20
11 what rooms have to be grouped or ungrouped,
12 sometimes. That took a certain amount of work to do
13 with dynamic groupings.

14 And the Zone Scene feature would allow them
15 to do some of that without all the work that they 11:19:42
16 might put into their manually grouping of groups.

17 Q In your view, allowing the users to save
18 prior groups they had put together, would it be
19 advantageous because it would take the user less
20 time to use a group that they previously used? 11:20:08

21 MS. BRODY: Objection to form.

22 THE WITNESS: Well, yeah. It would save
23 them work, work that they would have to do, yes.

24 BY MR. KAPLAN:

25 Q In the original version of -- strike that. 11:20:38

1 In Exhibit 1098, in this first paragraph,
2 it appears that you're comparing the introduction of
3 Zone Scenes to what was currently available in the
4 product; right?

5 MS. BRODY: Objection to form. 11:21:08

6 THE WITNESS: It's described what attribute
7 to what existed in the product as a reference to the
8 feature that I was describing.

9 BY MR. KAPLAN:

10 Q The second paragraph of Exhibit 1098 reads: 11:21:54

11 "Currently in the Sonos UI,
12 zone groups are created by
13 manually linking zones one at a
14 time until the desired zone
15 grouping is reached."

11:22:07

16 Do you see that?

17 A Yes.

18 Q Was that true?

19 A Yes.

20 Q Did Sonos add its own group feature to its 11:22:33
21 products?

22 MS. BRODY: Objection to form.

23 THE WITNESS: I believe we added a button
24 to the controller at the time that was labeled Party
25 Mode, which would invoke the grouping of all the

11:23:07

1 players together.

2 BY MR. KAPLAN:

3 Q Was that the first addition of Zone Scene
4 to the product?

5 A I think it worked in a different way than 11:23:38
6 the Zone Scene was designed.

7 Q What do you mean by that -- strike that.
8 I'll ask a better question.

9 You mentioned that Sonos added a button
10 labeled Party Mode that would invoke the grouping of 11:23:59
11 all the players together and you mentioned that this
12 was -- this worked in a different way than you had
13 designed Zone Scene.

14 Can you explain how it worked in a
15 different way than you had designed Zone Scene? 11:24:22

16 MS. BRODY: Objection; outside the scope.

17 THE WITNESS: The Party Mode that was
18 originally put into the product was a button that
19 would -- the control -- it was a button that
20 appeared on the interface of a control device. 11:24:47
21 Either a handheld control, we called it the CR 100,
22 I think, at the time, or a desktop controller and
23 pressing that button would group in that case all
24 the speakers together so they would play music
25 together in synchrony. 11:25:25

Page 67

1 The difference with Zone Scenes is that
2 the -- the room groupings that are defined as part
3 of a Zone Scene are, in this case, saved to the zone
4 players.

5 BY MR. KAPLAN: 11:26:15

6 Q In your view, then a Zone Scene must be
7 saved to the zone player, otherwise it is not a Zone
8 Scene?

9 MS. BRODY: Objection to form.

10 THE WITNESS: Well, that's how the system 11:26:36
11 worked at the time. The Zone Scenes were saved to
12 the speakers, the players.

13 BY MR. KAPLAN:

14 Q With respect to your invention, though, did
15 the Zone Scene need to be saved to the zone player 11:26:56
16 to make it a Zone Scene?

17 A At the time I was designing it, I was
18 working with the current system, and yes, that's
19 where the Zone Scenes would be saved.

20 Q In this document, Exhibit 1098, did you 11:27:41
21 describe where these Zone Scenes had to be saved?

22 A I would have to scan the document again to
23 see if I described it here.

24 Is it okay if I read it?

25 Q It is. 11:28:08

1 (Document reviewed by the witness.)

2 THE WITNESS: It does not look like I
3 describe where Zone Scenes are saved in this
4 document.

5 BY MR. KAPLAN: 11:31:48

6 Q As a general matter, was it Mr. Millington
7 who was responsible for the implementation or the
8 engineering side of the Zone Scenes ideas?

9 MS. BRODY: Objection to form, outside the
10 scope. 11:32:04

11 THE WITNESS: He was one of the developers
12 I worked with. I can't say with certainty whether
13 he worked on Zone Scenes.

14 BY MR. KAPLAN:

15 Q You didn't do the software development for 11:32:24
16 Zone Scenes in the products, though; is that right?

17 A Correct. I did not.

18 Q Can we go down to page 4 of Exhibit 1098,
19 please.

20 A Are we in a different exhibit now? 11:33:00

21 Q No. We're still in Exhibit 1098.

22 A Oh, you said page 4?

23 Q I'm sorry. Did I say -- if I said
24 Exhibit 4, I meant to say page 4 of Exhibit 1098,
25 please. 11:33:14

1 A Yes. Oh, yes, yes.

2 Q Page 4 has a heading that says:

3 "What happens to the Music

4 that's already playing when a

5 Zone Scene is started?" 11:33:41

6 Do you see that?

7 A Yes.

8 Q And then there are some options here.

9 The next sentence says:

10 "If no music is playing in 11:33:51

11 any Zone - then the zones will

12 simply link in a group."

13 Do you see that?

14 A Yes.

15 Q What did you mean by that? 11:34:00

16 A Well, if the Zone Scene brings together two

17 or more zones in a group and they're not already

18 playing, then I was describing the speakers would be

19 grouped together, ready to play in synchrony, I

20 think, but that they wouldn't play anything at that 11:34:35

21 moment in time.

22 Q And number 1 reads -- actually skipped a

23 step.

24 The next sentence in the document reads:

25 "If music is playing in one 11:34:59

1 or more zones there are several
2 possibilities," and then in
3 parenthesis, "(TBD)."

4 Do you see that?

5 A Yes. 11:35:10

6 Q "TBD" there stands for to be determined?

7 A Yes.

8 Q Below that there's a number 1 which reads:

9 "Music Queue in the zone

10 group that was formed by the Zone 11:35:25

11 Scene will be empty. In other

12 words - the music will stop in

13 any room that is part of the Zone

14 Scene. This is the simplest

15 solution, but may lead to 11:35:40

16 frustration."

17 Do you see that?

18 A Yes.

19 Q Can you describe this situation that's

20 number 1 here? 11:35:50

21 A Yes. If one zone is playing music and one

22 isn't, then when those rooms are grouped together to

23 create a group, then it would seem frustrating if

24 the music would stop rather than play the music that

25 was playing in one of the rooms that was grouped. 11:36:29

1 Q That was one of Sonos' implementations over
2 time, though; right?

3 MS. BRODY: Objection to form, outside the
4 scope.

5 THE WITNESS: Yes. I believe it was -- to 11:36:59
6 the best of my recollection, that that was one of
7 the behaviors.

8 BY MR. KAPLAN:

9 Q The next paragraph on page 4 of
10 Exhibit 1098 is number 2 and it reads: 11:37:07

11 "The user gets to choose from
12 which of the joining Queues the
13 new zone group should play. This
14 could be in the form of a
15 dialogue." 11:37:22

16 And then there's a choice dialogue and then
17 it reads:

18 "Note that this method would
19 only be useful," and in paren,
20 "(and possible) with simple Zone 11:37:33
21 Scene grouping. With Advanced
22 Zone Scene groupings, this
23 dialogue would become much too
24 complicated."

25 Do you see that? 11:37:46

1 A Yes.

2 Q Can you describe what option 2 is?

3 A So option 2 is if two rooms are joined
4 together, or in this case, three rooms -- excuse
5 me -- there's three options the user can choose 11:38:11
6 from: Track one, track two, radio station A. We
7 would ask -- if each of the rooms that were joined
8 together had music either queued up, ready to play
9 or actually playing, then we would ask the user,
10 okay, you put these rooms together, what would you 11:38:36
11 like me to play, and then the user will pick their
12 preference.

13 Q Did Sonos ever implement option 2?

14 A Yes, I believe so.

15 Q And option 3 reads: 11:39:05

16 "In the case where only one
17 of the zones in the new group was
18 playing music, the new group
19 should take the music," and in
20 paren, "(and Queue) of that 11:39:20
21 zone."

22 A Yes.

23 Q Can you describe what option 3 was?

24 A Yes. So in the case where the kitchen
25 might be playing a radio station, the living room 11:39:39

1 might be playing nothing, if the user grouped those
2 two rooms together, there will -- just assume they
3 won't have the music that is playing or ready to
4 play as a queue and choose it for them rather than
5 giving them -- them being the user -- a choice. 11:40:06

6 Q Did Sonos ever implement option 3?

7 A Yes, I believe so.

8 MS. BRODY: Counsel, we've been going a
9 little over an hour.

10 Are we able to take a short break? 11:40:27

11 MR. KAPLAN: That's fine.

12 THE VIDEOGRAPHER: We're going off the
13 record. The time is 11:40.

14 (Whereupon, a recess was held
15 from 11:40 a.m. to 11:53 a.m.) 11:52:47

16 THE VIDEOGRAPHER: We're back on the
17 record. The time is 11:53.

18 BY MR. KAPLAN:

19 Q Welcome back, Mr. Lambourne.

20 A Thank you. 11:53:05

21 Q Before the break, I believe you mentioned
22 that the Party Mode as implemented at the time that
23 you wrote the U.S. patent back in Exhibit 1098
24 worked differently than the Zone Scene that you
25 created; is that right? 11:53:36

1 A Yes.

2 Q The reason you said that was because the
3 Zone Scene that you created was stored at the Zone
4 Player; is that right?

5 A Yes. 11:53:52

6 Q What did you mean -- strike that.

7 When you said that the Zone Scene was
8 stored at the Zone Player, what did you mean by
9 that?

10 What was stored? 11:54:06

11 A As I stated, I'm not an engineer, so I
12 can't talk in terms of code. But in terms of
13 attributes, what would be stored would be in the
14 simplest form, the rooms that would make up the
15 scene and -- that would make up the scene that would
16 then be invoked whenever the scene -- whatever the
17 user wanted the scene to be invoked.

18 Q Okay. Mr. Lambourne, I would like to move
19 Exhibit 1099. This is SONOS-SVG2-00026888.

20 Do you see that? 11:55:28

21 A Yes.

22 Q This is an e-mail chain between you and
23 Andy Schulert; is that right?

24 A Yes.

25 Q This is also April 2005 timeframe; right? 11:55:42

1 A Yes.

2 Q Who is Andy Schulert?

3 A At that time he was an employee of Sonos
4 and he was my manager.

5 Q What were his responsibility -- what 11:56:08
6 were -- strike that.

7 What was Mr. Schulert's responsibilities at
8 that time?

9 MS. BRODY: Objection; outside the scope.

10 THE DEPONENT: I don't recall his exact 11:56:24
11 title, but he was the manager of the Sonos software
12 team.

13 BY MR. KAPLAN:

14 Q Let's start from the e-mail chain that's
15 furthest down in this thread, so earliest of time. 11:56:42

16 A Yes.

17 Q That's an e-mail from Andy Schulert to you
18 on April 8th, 2005.

19 Do you see that?

20 A April 2005, yes. 11:56:57

21 Q And he wrote in the third full paragraph:

22 "One of the problems with our
23 system is we don't have a way of
24 permanently linking zones
25 together. So, for instance, I

11:57:15

1 normally always keep the two
2 zones in my kitchen linked
3 together. But when I have
4 guests, I may link them with the
5 rest of the zones in the first 11:57:26
6 floor. Which is fine, except
7 when I want to restore things, I
8 unlink them all and then relink
9 the kitchen zones."

10 Do you see that? 11:57:38

11 A Yes.

12 Q So what problem is Mr. Schulert describing
13 here with the existing implementation?

14 A He's describing a situation where he has
15 two zones in his kitchen -- or two speakers in his 11:58:04
16 kitchen that he wants to normally always keep the
17 two zones in my kitchen together.

18 Q Further down in his e-mail he gives an
19 example. He says you can:

20 "Have zones A, B, C and D all 11:58:36
21 separate."

22 You can link A and B together, then link C
23 and D together, and then link A and B to C and D and
24 then he says or "party mode."

25 Do you see that? 11:58:51

1 A I do, yes.

2 Q He's describing creating first a group with
3 A and B, and then second a group of C and D, and
4 then third using Party Mode to join all the groups
5 together; is that right? 11:59:07

6 A Yes.

7 Q In this scenario, would linking A and B,
8 linking C and D, and then linking all of the zones
9 together be a Zone Scene?

10 MS. BRODY: Objection to form. 11:59:33

11 THE WITNESS: I'm just going to reread this
12 whole like section. I just want to make sure I
13 understand it.

14 (Document reviewed by the witness.)

15 THE WITNESS: Your question again, 12:00:29
16 Mr. Kaplan. I'm sorry.

17 BY MR. KAPLAN:

18 Q My question was -- I can -- let me break
19 the question up.

20 In the final step where he's linking group 12:00:37
21 A and B with groups C and D and he calls that Party
22 Mode, would that be a Zone Scene?

23 A Not necessarily. I don't think it's
24 defined in this e-mail thread.

25 Q You said "not necessarily." 12:01:13

1 Why would that not be a Zone Scene?

2 A Well, as I described earlier, the Party
3 Mode in our original controller was a command sent
4 by the control design that would tell the speakers
5 in that moment to go for a group, and Party Mode was 12:01:34
6 the term we gave to all the speakers together.

7 This can be referring to that as saying
8 okay, A and B are linked; C and D are linked; but
9 Party Mode invokes them to join together. That
10 could be coming from the control device and then 12:02:05
11 he's describing how the end of Party Mode, A and B
12 and C and D would stay together.

13 So A and B and C and D would be each
14 grouped -- A and B would be grouped, C and D would
15 be grouped. 12:02:30

16 I think A and B and C and D might be a Zone
17 Scene in this case.

18 Q Why do you think that?

19 A Well, because A and B and C and D know that
20 they need to be grouped when unlinked zones is 12:02:59
21 invoked.

22 Q And the fact that they're saved indicates
23 to you that they're a Zone Scene?

24 A I'm not entirely sure, because they start
25 the scenario by saying "all zones are separate." So 12:03:41

1 I don't know exactly what earlier they're referring
2 to in this part of the thread.

3 Q If we go up to the first page, the e-mail
4 at the bottom of that page is from you to Andy
5 Schulert, April 11th, 2005. 12:04:48

6 Do you see that?

7 A Yes.

8 Q And you describe in this e-mail, one,
9 permanent zone groups and, two, zone profiles.

10 Do you see that? 12:05:08

11 A So I'm not looking at the right place. I
12 don't see those words.

13 Q I'm looking at the final e-mail on page 1.

14 A Oh, final e-mail. Okay.

15 Q So this is the e-mail from you to Andy 12:05:31
16 Schulert, Monday, April 11, 2005, at 3:18 p.m.?

17 A Yes.

18 Q And the third and -- fourth and fifth
19 paragraphs address permanent zone groups and zone
20 profiles. 12:05:47

21 Do you see that?

22 A Yes.

23 Q With respect to zone profiles, you wrote:

24 "Allow a user to save zone
25 profiles," and then in 12:05:59

1 parenthesis "(as requested by Tom
2 and others)," end parenthesis.

3 Do you see that?

4 A Yes.

5 Q Who is Tom in that sentence? 12:06:08

6 A I believe that would have been Tom Cullen.

7 Q What was Tom Cullen's role at Sonos at that
8 point?

9 MS. BRODY: Objection to form. Objection;
10 outside the scope. 12:06:30

11 THE WITNESS: I don't remember his title,
12 but he's one of the founders of the Sonos.

13 BY MR. KAPLAN:

14 Q He's one of the founders of the company?

15 A Yes. 12:06:47

16 Q Who besides Tom was requesting to allow a
17 user to save zone profiles?

18 A I can't recall who that would have been.

19 Q In the next sentence you wrote:

20 "This would allow a user with 12:07:24

21 one click to put their Zones into

22 predefined groups)," open paren,

23 "(think Party - mode, but instead

24 of linking all Zones, certain

25 Zones get grouped." 12:07:39

1 Do you see that?

2 A Yes.

3 Q Is that describing Zone Scenes?

4 MS. BRODY: Objection to form.

5 THE WITNESS: I believe certain groups 12:08:01

6 would refer to Zone Scenes.

7 BY MR. KAPLAN:

8 Q So the latter part of that sentence where
9 you're describing having certain zones get grouped
10 into predefined groups, that would be describing 12:08:26
11 Zone Scenes?

12 MS. BRODY: Objection to form.

13 THE WITNESS: So I'm looking for the
14 word -- maybe I'm not looking at the right paragraph
15 here. 12:08:52

16 Are you on item 2 of this e-mail?

17 BY MR. KAPLAN:

18 Q Item 2, sentence 2, last clause.

19 A Certain groups. Yes, yes.

20 Certain groups get grouped, yes. 12:09:07

21 Q You also discuss in this paragraph 'blown'
22 queues.

23 What is that referring to?

24 A That referred to the situation where if two
25 rooms are grouped together, one is playing and one 12:09:37

Page 82

1 isn't, or one has a queue of music to play and one
2 doesn't, and then the group doesn't take on the
3 playing queue, it takes on the empty queue.

4 Q Are you familiar with the term "dynamic
5 group"?

12:11:06

6 A Yes.

7 Q What does dynamic group mean?

8 A Again, I'm not a person that writes code,
9 but from a user perspective, that would be the
10 ability to make groups in an add up manner.

12:11:27

11 So, for instance, if I'm playing a radio
12 station in the kitchen in that moment, I can add the
13 dining room to that group to form a group and they
14 would both play that radio station.

15 So the dynamic aspect is the user goes
16 through the actions to create those groups.

12:11:54

17 Q What is the relationship between a dynamic
18 group and a Zone Scene?

19 MS. BRODY: Objection; outside the scope.

20 THE WITNESS: Well, dynamic group is
21 created by the user in the moment, where a Zone
22 Scene is a grouping of rooms or zones that a user
23 has predefined and saved. Yes.

12:12:21

24 BY MR. KAPLAN:

25 Q At the time that you came up with the Zone

12:12:54

1 Scene idea, did the products implement dynamic
2 groups, the Sonos products?

3 MS. BRODY: Objection; outside the scope.

4 THE WITNESS: In the way that -- sorry.

5 Can you ask the question again, please? 12:13:23

6 BY MR. KAPLAN:

7 Q Sure.

8 At the time that you came up with the Zone
9 Scene idea, did the Sonos products implement dynamic
10 groups? 12:13:36

11 MS. BRODY: Same objection.

12 THE WITNESS: Yes. That's how -- at least
13 from the user's perspective, that's how groups were
14 created or broken down dynamically.

15 BY MR. KAPLAN: 12:14:13

16 Q At the time that you came up with the Zone
17 Scene idea, the Sonos products included Zone
18 Players, like the ZP 100; is that right?

19 A Yes.

20 Q Do you remember at a high level what the 12:14:38
21 ZP 100 was?

22 MS. BRODY: Objection; outside the scope.

23 THE WITNESS: Yes.

24 BY MR. KAPLAN:

25 Q What was it? 12:14:51

1 BY MR. KAPLAN:

2 Q Did you help design the CR 100 or the
3 desktop control software?

4 MS. BRODY: Objection; outside the scope.

5 THE WITNESS: Yes. 12:17:20

6 BY MR. KAPLAN:

7 Q How would the CR 100 connect to the ZP 100?

8 MS. BRODY: Objection; outside the scope.

9 THE WITNESS: With wireless technology.

10 BY MR. KAPLAN: 12:18:04

11 Q The CR 100 could connect to a wireless
12 Ethernet Hub and so could the ZP 100?

13 MS. BRODY: Objection; outside the scope.

14 THE WITNESS: I'm not a wireless expert, so

15 I don't know how specific you're asking me to be, 12:18:29

16 but the CR 100 connected with wireless technology to
17 the Zone Player 100, or Multiple Player Zone 100s,
18 if the user had more than one Zone Player 100.

19 BY MR. KAPLAN:

20 Q Did the ZP 100s do any audio processing? 12:18:54

21 MS. BRODY: Objection; outside the scope.

22 THE WITNESS: I'm not a technical person,

23 but I believe the audio processing happened on the
24 Zone Player.

25 /// 12:19:40

1 BY MR. KAPLAN:

2 Q The Zone Players, they could store or
3 receive commands from the CR 100; is that right?

4 MS. BRODY: Objection to form, outside the
5 scope. 12:20:01

6 THE WITNESS: Yes. The Zone Players
7 received commands from the CR 100.

8 BY MR. KAPLAN:

9 Q Now, prior to the Zone Scene that you came
10 up with, the Zone Players could either operate in 12:20:25
11 standalone mode or they could operate in a grouped
12 mode; is that fair?

13 MS. BRODY: Objection to form.

14 THE WITNESS: Yes. They could either be
15 standalone playing with the ability to play music by 12:20:51
16 just in that single zone or they could be grouped
17 with other zones. I don't know whether you're using
18 the word "mode" in a general way or a more specific
19 way.

20 BY MR. KAPLAN: 12:21:10

21 Q How do you use the term "standalone mode"?

22 A Standalone I think is the -- essentially
23 where a speaker is not grouped to other speakers.

24 Q We'll go with that definition.

25 I think you mentioned that the ZP 100 could 12:21:50

1 operate in a Sonos system with two or more other
2 ZP 100s; is that right?

3 MS. BRODY: Objection; outside the scope.

4 THE WITNESS: Yes.

5 BY MR. KAPLAN: 12:22:11

6 Q Do you know at that time in 2004 whether or
7 not the ZP 100s understood that they had been added
8 to a group when they were added to that group?

9 MS. BRODY: Objection to form, outside the
10 scope. 12:22:45

11 THE WITNESS: I'm having trouble with your
12 wording.

13 Do they understand that they're part of a
14 group?

15 They're playing in a synchronized way. 12:23:09

16 BY MR. KAPLAN:

17 Q I don't want to attribute feelings to them
18 or hurt their feelings, if they do have them, so let
19 me try to rephrase.

20 Do the Zone Scenes -- strike that. 12:23:24

21 Do the Zone Players store information that
22 they can process showing that they are part of a
23 group?

24 MS. BRODY: Objection to form.

25 THE WITNESS: Technically, I don't know the 12:23:50

1 answer to that.

2 BY MR. KAPLAN:

3 Q Did the Zone Players in 2004 utilize Zone
4 Scenes?

5 MS. BRODY: Objection to form, outside the 12:24:24
6 scope.

7 THE WITNESS: Not in the way that I
8 designed Zone Scenes, no.

9 BY MR. KAPLAN:

10 Q What do you mean by not in the way that you 12:24:37
11 designed Zone Scenes?

12 A Well, my Zone Scenes I set the behaviors
13 and they did not exist in the product before I
14 designed them.

15 Q Which set of behaviors are you referring 12:24:59
16 to?

17 A The ability for a user to create a room
18 grouping or multiple room groupings potentially with
19 other attributes like volume and for the user to
20 have that information be saved in the system so that 12:25:23
21 it can be invoked at a later time.

22 Q In your view, the Zone Players 100 in 2004
23 could not do that, and, therefore, it did not
24 include Zone Scenes; is that fair?

25 A I would say so, yes. 12:25:56

1 Q Did the linked groups in Zone Player in
2 2004 have a name?

3 MS. BRODY: Objection to form, outside the
4 scope.

5 THE WITNESS: You said the linked groups 12:26:34
6 prior to 2004.

7 BY MR. KAPLAN:

8 Q I said "in 2004." Let me repeat the
9 question.

10 Did linked groups in the Zone Player 100 in 12:26:41
11 2004, did those linked groups have a name?

12 A No.

13 Q How were the -- strike that.

14 How was a linked group in the Zone Player
15 100 in 2004 identified to the user? 12:27:20

16 MS. BRODY: Objection to form; outside the
17 scope.

18 THE WITNESS: In the user interface I
19 created, it would show two rooms being linked
20 together. For example, the kitchen and dining room, 12:27:41
21 the interface would show kitchen plus dining room.

22 BY MR. KAPLAN:

23 Q Was kitchen plus dining room not a name?

24 MS. BRODY: Objection to form.

25 THE WITNESS: It was a name or description 12:28:13

1 generated by the system.

2 BY MR. KAPLAN:

3 Q Would you consider -- strike that. Let's
4 get an example.

5 So let's say that you have a zone that's 12:28:35
6 called den and you have a zone that's called
7 kitchen.

8 Are you with me so far?

9 A Yes.

10 Q In 2004, if you linked those two zones 12:28:52
11 together, you would get a zone called kitchen plus
12 den; is that right?

13 MS. BRODY: Objection to form.

14 THE WITNESS: It wasn't a zone called
15 kitchen plus den, but kitchen plus den would be 12:29:17
16 rendered on the control device.

17 BY MR. KAPLAN:

18 Q It would be a group of kitchen plus den,
19 wouldn't it?

20 A Yes. 12:29:27

21 MS. BRODY: Objection to form.

22 BY MR. KAPLAN:

23 Q Would the blending of the kitchen plus den
24 on a device be a name of the group in your opinion?

25 MS. BRODY: Objection to form. 12:29:41

1 THE WITNESS: Broadly speaking, I would
2 call it a description.

3 BY MR. KAPLAN:

4 Q A description but not a name?

5 A I mean, not in the name in the sense that 12:30:07
6 it was saved. I mean, I suppose you could call it a
7 name, I mean, kitchen plus dining room, I would say
8 that's more of a description.

9 Q The zones could be named, so a user could
10 instead of naming one zone kitchen, the user could 12:30:59
11 name it something else; right?

12 MS. BRODY: Objection to form.

13 THE WITNESS: Yes, an individual zone could
14 be named by the user.

15 BY MR. KAPLAN: 12:31:16

16 Q And that name change from the zone would
17 carry through to any groups that the zone became a
18 part of; is that right?

19 A Yes. In the sense it would be kitchen plus
20 den would be shown on the interface when the two 12:31:31
21 were grouped.

22 Q In 2004, the Zone Players -- strike that.

23 In 2004, the Sonos system would allow a
24 user to invoke a Party Mode where all of the zones
25 would be joined together in one group; is that 12:31:57

1 right?

2 MS. BRODY: Objection; form.

3 THE WITNESS: Yes.

4 BY MR. KAPLAN:

5 Q If -- strike that. 12:32:12

6 And let's do an example.

7 Let's say I have zone A, which is

8 standalone, then I have zones B and C, which are

9 grouped together, and again, this is 2004.

10 A Yes. 12:32:37

11 Q If Party Mode is invoked, what would happen
12 to zone A and group B, C?

13 MS. BRODY: Objection to form, outside the
14 scope.

15 THE WITNESS: If Party Mode was -- if the 12:32:59
16 user pressed Party Mode on the controller, then A, B
17 and C would be caused to be grouped together.

18 BY MR. KAPLAN:

19 Q What would have happened to the group that
20 had B and C in it? 12:33:20

21 MS. BRODY: Objection to form, outside the
22 scope.

23 THE WITNESS: For a code, from a technical
24 perspective, I can't say what happened in the code
25 specifically. But groups A -- sorry. 12:33:45

1 Rooms A, B and C would follow a new group
2 called A plus B plus C.

3 BY MR. KAPLAN:

4 Q Could rooms B and C transition from only
5 being synchronized with B and C, and now be 12:34:15
6 synchronized with A, B and C?

7 MS. BRODY: Objection to form, outside the
8 scope.

9 THE WITNESS: Yes. From a user
10 perspective, A, B and C would be a group. 12:34:38

11 BY MR. KAPLAN:

12 Q In the situation where we had room A in
13 standalone mode and rooms B and C joined together,
14 and room A is playing different music than group B,
15 C, what happens when Party Mode gets invoked? 12:34:59

16 MS. BRODY: Objection to form, outside the
17 scope.

18 THE WITNESS: Are you talking in 2004?

19 BY MR. KAPLAN:

20 Q I am. 12:35:16

21 A I would need to refer to the spec -- one of
22 the specs that I wrote.

23 Q Is it a spec that we've seen already today?

24 A I believe the spec we saw in 2005, that was
25 an example of a room grouping interface that might 12:35:57

1 help jog my memory.

2 Q That would be Exhibit 1098?

3 A Yes. The one we were looking at earlier.

4 Q Would this be page 2 of Exhibit 1098?

5 A Yes, 1098. 12:36:25

6 Although this describes, of course, the
7 Zone Scenes idea which is a late -- from not that
8 period. I don't recall exactly what the behavior in
9 2004 would be with Party Mode being invoked in the
10 scenario you described. 12:37:13

11 Q Would it have been the case that -- well,
12 do you think it's likely that after Party Mode is
13 invoked, all of the speakers would be playing the
14 same music synchronously, regardless of whether that
15 music came from speaker A or speakers B and C? 12:37:44

16 MS. BRODY: Objection to form, outside the
17 scope.

18 THE WITNESS: Yes. I believe that would
19 have been the result.

20 BY MR. KAPLAN: 12:39:22

21 Q In 2004, could a user create a group that
22 had rooms A and B in it and a separate group that
23 had rooms C and D in it?

24 MS. BRODY: Objection to form, outside the
25 scope. 12:39:46

1 THE WITNESS: They could create a dynamic
2 grouping. They couldn't save it as such.

3 BY MR. KAPLAN:

4 Q So a user could create a dynamic group that
5 had speakers A and B and a dynamic group that had 12:40:18
6 separate speakers C and D, but those wouldn't
7 necessarily be saved; is that right?

8 MS. BRODY: Objection to form, outside the
9 scope.

10 THE WITNESS: Well, maybe I can be more 12:40:41
11 specific.

12 Yes. They could create a dynamic grouping
13 of A and B and then separately B and C. But what I
14 mean by it wouldn't be saved, it wouldn't be saved
15 as a zone C. 12:40:54

16 BY MR. KAPLAN:

17 Q Could a user in 2004 create a dynamic group
18 of A and B and a separate dynamic group of B and C?

19 MS. BRODY: Objection to form, outside the
20 scope. 12:41:15

21 THE WITNESS: Yes.

22 BY MR. KAPLAN:

23 Q In your view, however, those wouldn't be
24 Zone Scenes; is that right?

25 A In 2004, correct. 12:41:28

1 Q All right. Were you aware of other
2 companies that were also making speakers for whole
3 home audio setups in 2004, 2005?

4 A Could you define more "whole home setups"?

5 Q Were you aware of any companies that you 12:42:38
6 considered competitors of Sonos in the 2004, 2005
7 timeframe?

8 MS. BRODY: Objection to form, outside the
9 scope.

10 THE WITNESS: I was aware of some companies 12:43:04
11 that were making streaming audio products. I
12 wouldn't call those direct competitors to Sonos.

13 BY MR. KAPLAN:

14 Q What are the streaming audio products
15 companies that you're thinking of? 12:43:21

16 A Philips made a product called Streamium, I
17 seem to remember.

18 Q Any others?

19 A There was a product called Turtle
20 something, Turtle Beach, maybe around. 12:43:51

21 Q Any other companies that you can recall
22 that were making streaming audio products in that
23 timeframe?

24 A I believe Yamaha had something. I don't
25 recall the name of the product, though. 12:44:24

1 Q Any others?

2 A Sitting here today, that's all I can
3 recall.

4 Q Do you recall what Yamaha's product
5 capabilities were? 12:44:41

6 MS. BRODY: Objection; outside the scope.

7 THE WITNESS: I believe it streamed audio
8 to a speaker.

9 BY MR. KAPLAN:

10 Q Were there any other companies in the 2004 12:45:17
11 timeframe that allowed a user to create groups of
12 speakers?

13 MS. BRODY: Objection to form.

14 THE WITNESS: Sitting here today, not that
15 I can recall. 12:45:44

16 BY MR. KAPLAN:

17 Q Do you have an understanding of what a
18 theme for a zone group is?

19 A I believe I used that word synonymously
20 with Zone Scene. 12:46:49

21 MR. KAPLAN: Can we take a quick break?

22 THE VIDEOGRAPHER: Sure. Going off the
23 record. The time is 12:48.

24 (Whereupon, a lunch recess was held
25 from 12:48 p.m. to 1:33 p.m.) 13:33:24

Page 98

1 THE VIDEOGRAPHER: We're back on the
2 record. The time is 1:33.

3 BY MR. KAPLAN:

4 Q Welcome back, Mr. Lambourne.

5 A Thank you. 13:33:41

6 Q Did you have a good lunch?

7 A I did, yes.

8 Q Okay. Good.

9 Did you speak with your counsel about the
10 substance of this deposition at the break? 13:33:52

11 A No.

12 MR. KAPLAN: Mr. Lambourne, I would like
13 you to open up Exhibit 1074, please.

14 (Whereupon, Plaintiff's Exhibit 1074 was
15 marked for identification by the 13:34:07
16 Court Reporter.)

17 THE WITNESS: Okay.

18 BY MR. KAPLAN:

19 Q Exhibit 1074 is U.S. Patent Number
20 7,571,014 with named inventors Robert A. Lambourne 13:34:23
21 and Nicholas Millington.

22 Do you see that?

23 A I do, yes.

24 Q This is another one of your summons
25 patents? 13:34:43

1 A Yes.

2 Q Do you recognize this patent?

3 A It's been a while that I looked at it, but
4 the number that sounds familiar to me, the 014.

5 Q Do you recall what this patent relates to? 13:35:09

6 MS. BRODY: Objection to form, outside the
7 scope.

8 And I'll just make a statement that if this
9 is going outside of the scope of the Rule 30(b)(6),
10 we are required to separately transcribe this part 13:35:24
11 of the testimony, Mr. Kaplan, under Judge Culpert's
12 supplement order.

13 MR. KAPLAN: Right. This goes to
14 advantages or disadvantages over the art, which is
15 topic 1. 13:35:47

16 MS. BRODY: Okay. I'll see where the
17 question goes. I may interpose some objections, but
18 we'll just take it question by question.

19 MR. KAPLAN: Okay.

20 BY MR. KAPLAN: 13:35:58

21 Q Mr. Lambourne, could you read the abstract
22 of the 014 patent to yourself on the front page.

23 A Yes.

24 (Document reviewed by the witness.)

25 THE WITNESS: Okay. I've read it. 13:37:02

1 BY MR. KAPLAN:

2 Q So about halfway down the abstract, there's
3 a sentence that reads:

4 "Two or more zone players may
5 be dynamically grouped as a zone 13:37:15
6 group for synchronized
7 operations."

8 Do you see that?

9 A Yes.

10 Q Is this referring to the ability of the 13:37:22
11 ZP 100 in the 2004 timeframe to allow a user to
12 create multiple different dynamic groups?

13 MS. BRODY: Objection to form.

14 THE WITNESS: It appears to be talking
15 about dynamic grouping of zone players. 13:37:57

16 BY MR. KAPLAN:

17 Q And this dynamic group allows the players
18 to output audio synchronously; right?

19 A Does it use the word in synchrony?

20 Q So in the sentence we just read -- 13:38:34

21 A Oh, yes.

22 Q -- it discusses synchronized operations.

23 Do you see that?

24 A Yes.

25 Q And then if you skip one sentence and go to 13:38:54

Page 101

1 the next, it reads:

2 "The zone group configuration

3 may be saved in one of zone

4 players."

5 I suppose it's one of these zone players. 13:39:13

6 A Yes, I see that.

7 Q Do you recall what the zone group

8 configuration was?

9 A I couldn't say what configuration means in
10 this context. 13:39:44

11 Q This sentence does show that the, quote,
12 "Zone group configuration could be saved at the zone
13 player," though?

14 MS. BRODY: Objection to form.

15 THE WITNESS: Yes. It says, "The zone
16 group configuration may be saved in one of zone
17 players."

18 BY MR. KAPLAN:

19 Q I'd like to turn to column 1, line 50.

20 Let me know when you're there. 13:41:01

21 A Yes, I'm there now.

22 Q Do you see at roughly line 60, where it
23 reads:

24 "In order to satisfy such

25 requirements, two groups of audio 13:41:34

Page 102

1 players must be established. In
2 the morning the audio players in
3 the bedroom, the bathroom and the
4 den need to be grouped for
5 broadcast news and in the evening 13:41:46
6 the audio players in the den and
7 the living room are grouped for
8 music."
9 And it goes on from there.
10 Do you see that? 13:41:58
11 A I do, yes.
12 Q Do you have an understanding of what the
13 morning and evening groups were in the Sonos
14 products at this time?
15 MS. BRODY: Objection; outside the scope. 13:42:40
16 THE WITNESS: Will you allow me to read the
17 whole paragraph?
18 MR. KAPLAN: That's fine.
19 (Document reviewed by the witness.)
20 THE WITNESS: Okay. Sorry. What was your 13:43:34
21 question again?
22 BY MR. KAPLAN:
23 Q Do you have an understanding of what the
24 morning and the evening groups would have been in
25 the Sonos products in the 2004 timeframe? 13:43:45

1 A Well, I think --

2 MS. BRODY: Objection; outside the scope.

3 THE WITNESS: I think here the author is

4 describing a scenario whereby in the morning --

5 sorry -- in the evening, the den and the living room 13:44:03

6 would be grouped to play together and then I watch

7 the scenario -- sorry. Yeah.

8 It describes in the morning that the

9 bathroom, bedroom and den may be grouped together

10 while the person in the scenario is preparing to go 13:44:29

11 to work in the morning and in the evening they wish

12 for a different grouping to occur. In this case,

13 it's the den and the living room to go to the music.

14 BY MR. KAPLAN:

15 Q Is this describing the den appearing in two 13:44:53

16 different dynamic groups?

17 MS. BRODY: Objection; outside the scope.

18 THE WITNESS: The den and living room --

19 I'm sorry.

20 Bedroom, bathroom and den in the morning 13:45:15

21 and in the evening the den and the -- I have to zoom

22 in. One second. I'm losing my place.

23 Yes. So the -- so the den is playing music

24 with some speakers in the morning and then the

25 scenario is describing in the den may be playing 13:45:43

Page 104

1 with other speakers in the evening.

2 BY MR. KAPLAN:

3 Q So is that describing the den being part of
4 multiple groups at the same time?

5 MS. BRODY: Objection to form. 13:46:01

6 THE WITNESS: I would not draw that
7 conclusion from this.

8 BY MR. KAPLAN:

9 Q If you look at line 65 through 67, it says:

10 "Over the weekend, the audio 13:46:15
11 players in the den, the living
12 room and the kitchen are grouped
13 for party music."

14 With that additional group, the weekend
15 group, in addition to the morning and the evening 13:46:32
16 group, is there overlap in the groups that include
17 the den?

18 MS. BRODY: Objection to form, outside the
19 scope.

20 THE WITNESS: It's describing an example 13:46:51
21 scenario whereby the den is part of a group of
22 speakers in the morning, it's part of a different
23 group of speakers in the evening, and it's part of
24 potentially a different group of speakers over the
25 weekend. 13:47:25

```
1           So it's -- yes, it's part of three separate
2 groups over the course of a day that the user is
3 able to generate these groupings so they could play
4 different music at different times of the day, so I
5 guess a grouping different times of the day.
```

6 BY MR. KAPLAN:

7 Q Based on this, do you understand that the
8 den would have existed in different groups at the
9 same time?

10 MS. BRODY: Objection to form.

11 THE WITNESS: I don't think this is
12 describing the den as being part of three groups at
13 the same time. I think this is describing the den
14 being part of groups at different times in the day
15 in this particular scenario.

16 BY MR. KAPLAN:

17 Q I would like to turn to column 9 at
18 line 53.

19	A	Okay. Yes.
----	---	------------

20	0	The sentence there reads:
----	---	---------------------------

21 "Depending on implementation,
22 any zone players that have been
23 used in a group may or may not be
24 used in another group."

25	Do you see that?
----	------------------

1 A (Reading):

2 "Depending on the
3 implementation, any zone players
4 that have been used in a group
5 may or may not be used in another 13:49:43
6 group."

7 I see that, yes.

8 Q Does that describe allowing a zone player
9 to exist in more than one group at any time?

10 MS. BRODY: Objection to form, outside the 13:50:04
11 scope.

12 THE WITNESS: Again, I would have to read a
13 bit more of the paragraph around that sentence to
14 get the context.

15 BY MR. KAPLAN: 13:50:25

16 Q Understood.

17 A What was your question again, please?

18 Q Does this describe allowing a zone player
19 to exist in more than one group at a time?

20 MS. BRODY: Objection to form, outside the 13:51:32
21 scope.

22 THE WITNESS: I couldn't say that with
23 certainty. It seems to be describing that a user is
24 creating a group of players to play audio in
25 synchrony, and then that grouping is made on the 13:52:00

Page 107

1 zone menu. And depending on the implementation, any
2 zone players that may be used in a group may or may
3 not be used in another group.

4 I think it's saying that any room can be
5 added to the group, whether or not that's part of 13:52:19
6 another group.

7 BY MR. KAPLAN:

8 Q Therefore, a room could be a part of
9 multiple groups; right?

10 MS. BRODY: Objection to form, outside the 13:52:37
11 scope, calls for legal conclusion.

12 THE WITNESS: Repeat the question again,
13 please.

14 BY MR. KAPLAN:

15 Q Based on the disclosure, a room could be a 13:52:54
16 part of multiple groups; right?

17 MS. BRODY: Same objections.

18 THE WITNESS: I think this is describing
19 that a room could be added to different groups, but
20 I mean, based on the paragraph you read before, it's 13:53:24
21 not describing at the same time. It's describing
22 scenarios where a user creates one group and then
23 another group and that room may move from one group
24 to another group, I believe.

25 /// 13:53:44

1 BY MR. KAPLAN:

2 Q It says, "Any zone players that have been
3 used in a group may or may not be used in another
4 group."

5 MS. BRODY: Is that a question? 13:53:55

6 BY MR. KAPLAN:

7 Q Do you understand this disclosure to say
8 that a zone player, if it's already part of a group,
9 may not be used in another group?

10 MS. BRODY: Objection to form, outside the 13:54:19
11 scope.

12 It's still not clear how this relates to
13 advantages and disadvantages under the 30(b)(6)
14 notice, and I'm going to allow a few more questions
15 and give you some leeway here, but I am going to 13:54:30
16 have to ask that this be separately transcribed if
17 the questioning is clearly outside the scope.

18 Mr. Lambourne, you can answer, if you
19 understand the question.

20 THE WITNESS: I am not entirely sure what 13:54:56
21 that sentence means without reading more context.

22 BY MR. KAPLAN:

23 Q Sure.

24 If you need to read the paragraph or even
25 more of the patent, you can read what you need to, 13:55:05

Page 109

1 to help you get the context.

2 A Okay. Thank you.

3 Because this section is talking about

4 linking rooms dynamically. I think this is what I

5 say. Again, I haven't studied this patent in a good 13:57:29

6 while, but if in a link zone menu the user is able

7 to pick zones to make up that group, I think it's

8 saying whether or not that zone has been -- is

9 currently part of another group or not, it can be

10 part of the new group. 13:57:58

11 Q So it's possible that the zone could be, in

12 part, a part of multiple groups at the same time?

13 MS. BRODY: Objection to form, outside the

14 scope.

15 THE WITNESS: I don't think that is what 13:58:28

16 this is saying. This is saying that if the bedroom

17 used to be linked in the den and the user wants to

18 go and link the bedroom now to the bathroom, they

19 can do that regardless of whether the bedroom used

20 to be linked to something else or not. I think that 13:58:43

21 is what this is saying.

22 BY MR. KAPLAN:

23 Q You're reading could have been used in a

24 group in the past tense?

25 MS. BRODY: Objection to form, outside the 13:59:02

1 scope.

2 THE WITNESS: Yes, I think so.

3 BY MR. KAPLAN:

4 Q It has been used -- well, strike that.

5 I don't want to get into too much perfect 13:59:21

6 grammar here. I understand what you're saying,

7 though.

8 You don't contend that it's -- strike that.

9 You don't contend that you invented speaker

10 grouping, per se; is that fair? 14:00:08

11 MS. BRODY: Objection to form.

12 THE WITNESS: I invented aspects of speaker

13 grouping, but I don't know what you mean by "speaker

14 group, per se."

15 BY MR. KAPLAN: 14:00:31

16 Q Well, there were products -- I'm sorry.

17 Actually, let me pause for a moment. I'm

18 getting some feedback from the audio now since the

19 lunch hour.

20 Is anyone else getting that? 14:00:39

21 THE REPORTER: Yes.

22 THE VIDEOGRAPHER: Can we go off the record

23 and try to fix that?

24 MR. KAPLAN: Yes.

25 THE VIDEOGRAPHER: We're going off the 14:00:47

Page 111

1 record. The time is 2:00 o'clock.

2 (Whereupon, a recess was held
3 from 2:00 p.m. to 2:03 p.m.)

4 THE VIDEOGRAPHER: We're back on the

5 record. The time is 2:03. 14:03:14

6 BY MR. KAPLAN:

7 Q Mr. Lambourne, before we took a break, I
8 was asking you some questions about the scope of
9 your invention, so let me pick up from there.

10 Would you agree with me that speaker 14:03:30
11 grouping, at least some forms of speaker grouping,
12 were known prior to your invention?

13 MS. BRODY: Objection to form.

14 THE WITNESS: I think some forms of speaker
15 group, yes. 14:03:51

16 BY MR. KAPLAN:

17 Q Would you agree with me that dynamic
18 speaker grouping was known prior to your invention?

19 MS. BRODY: Objection to form.

20 THE WITNESS: Which invention are we 14:04:10
21 talking about now, the one in this patent or the one
22 that we were talking about earlier?

23 BY MR. KAPLAN:

24 Q So the inventions that I'm referring to for
25 this line of questions, and really for this 14:04:25

1 deposition as a whole, are going to be the ones in
2 the 885 patent and the 966 patent, which are
3 Exhibits 1071 and 1072.

4 A Yes, speaker grouping.

5 Can you repeat the question, please, to 14:04:47
6 make sure I'm accurate? Yeah.

7 Q Sure.

8 Would you agree with me that dynamic
9 speaker grouping was known prior to your invention?

10 MS. BRODY: Objection to form. 14:05:01

11 THE WITNESS: Yes. Prior to the 885 and
12 966 patent, yes.

13 BY MR. KAPLAN:

14 Q Would you agree with me that synchronous
15 playback within a speaker group was known prior to 14:05:19
16 your invention?

17 MS. BRODY: Objection to form.

18 THE WITNESS: My understanding of
19 synchronous playback was listed before the 885 and
20 966 patents. 14:05:42

21 BY MR. KAPLAN:

22 Q Would you agree that being able to have two
23 zones each -- strike that.

24 Would you agree with me that being able to
25 have two groups that each contained one of the same 14:06:05

Page 113

1 zones was possible and known prior to your
2 invention?

3 MS. BRODY: Objection to form.

4 THE WITNESS: Two groups would contain the
5 same zone. 14:06:32

6 BY MR. KAPLAN:

7 Q Correct.

8 A I mean, I believe that's what the Zone
9 Scenes design -- I believe that's what was created
10 during the time I was creating the Zone Scene 14:07:09
11 design.

12 Q In the 2004 timeframe, I thought we had
13 discussed that it was possible using ZP 100s to
14 create dynamic groups that could include the same
15 room -- 14:07:37

16 MS. BRODY: Objection to form.

17 BY MR. KAPLAN:

18 Q -- is that correct?

19 A At the same time specifically?

20 Q Let's break it down. 14:07:54

21 So in the 2004 timeframe, was it possible
22 for ZP 100s to be grouped, such that they would
23 share a ZP 100 not at the same time?

24 MS. BRODY: Objection to form.

25 THE WITNESS: Can you restate the question, 14:08:26

1 please, Mr. Kaplan?

2 I'm not understanding your point.

3 BY MR. KAPLAN:

4 Q It wasn't a great question.

5 Was it possible in the 2004 timeframe using 14:08:34
6 ZP 100s to create two groups of ZP 100s that shared
7 one of those ZP 100s?

8 MS. BRODY: Objection to form.

9 THE WITNESS: No. In the 2004 timeframe,
10 in the interface I created for zone management, a 14:09:06
11 single player could not be part of two synchronized
12 groups at the same time.

13 BY MR. KAPLAN:

14 Q Would one of those groups have to be
15 unlinked before the room could be added to the other 14:09:29
16 group?

17 MS. BRODY: Objection to form.

18 THE WITNESS: Well, that was described as
19 in effect, the player would have to be removed from
20 one group in order to be part of another group with 14:10:03
21 the idea that the group is a set of speakers that
22 can play music at the same time in synchrony.

23 BY MR. KAPLAN:

24 Q Let's say that this is in the 2004
25 timeframe, you had two zones, A and B, and those are 14:10:24

1 grouped together, and you have another two zones C
2 and D, and those are also grouped together.

3 Was that possible?

4 MS. BRODY: Objection to form, outside the
5 scope. 14:10:45

6 THE WITNESS: So A and B are synced and
7 play music and you're saying at the same time could
8 C and B be also grouped playing music?

9 BY MR. KAPLAN:

10 Q Actually, no. 14:11:01

11 My example was where you have speakers --
12 excuse me.

13 My example was where you have the zones
14 A and B grouped together and then you have
15 separately zones C and D grouped together. 14:11:14

16 Was that possible?

17 A That was possible, yes.

18 Q And was it possible to transition speaker A
19 in that example from the first group to the second
20 group? 14:11:36

21 MS. BRODY: Objection to form, outside the
22 scope.

23 THE WITNESS: Yes. A could be removed from
24 the A and B group and added to the C and D group,
25 yes. 14:11:56

1 BY MR. KAPLAN:

2 Q Instead of removing A from A and B and
3 adding A to C and D, could you just add A to group C
4 and D?

5 MS. BRODY: Objection to form, outside the 14:12:12
6 scope.

7 THE WITNESS: I think what we had in the
8 product at the time, if I recall correctly, you
9 would have to remove A from its -- the original A, B
10 group to add it to B and C -- sorry -- to add it to 14:12:39
11 C and D.

12 But I think in principle, A could be
13 removed from the group A and B and made to be part
14 of the group C and D.

15 BY MR. KAPLAN: 14:13:09

16 Q Could you in the situation where you would
17 have zones A and B in a group and separately zones C
18 and D in a group, join both of those groups
19 together?

20 MS. BRODY: Objection to form, outside the 14:13:26
21 scope.

22 THE WITNESS: In the 2004 timeframe,
23 again --

24 MS. BRODY: Same objections.

25 THE WITNESS: In the 2004 timeframe, that 14:13:40

Page 117

1 would -- it would not really be A and B joining C
2 and D. It would be a new group of A plus B plus C
3 plus D.

4 BY MR. KAPLAN:

5 Q Why do you say that? 14:13:58

6 A Well, because A and B and C and D existed
7 at the moment in time as two separate groups. But
8 when they were brought together, A and B would join
9 C and D, but A and B were no longer a group anymore.
10 They all -- I guess you could describe it -- and 14:14:30
11 maybe this is not the technical description -- but
12 you could describe it as the original groups A and B
13 and C and D were no longer there and a new group
14 called A plus B plus C plus D took their place.

15 That's how I would describe it in terms of 14:14:49
16 the behavior, technically -- I'm not a technical
17 person, but that's how I would describe the
18 behavior.

19 Q Was it possible in that 2004 timeframe to
20 control how the zones were attached to different 14:15:22
21 groups remotely and wirelessly?

22 MS. BRODY: Objection to form, outside the
23 scope.

24 THE WITNESS: Well, the wireless controller
25 that we've been talking about earlier would be used 14:15:44

1 to create that groups of -- I think you said A, B
2 and C and D. So yeah, the wireless controller was
3 being used to generate the command to make that
4 group.

5 BY MR. KAPLAN: 14:16:10

6 Q When the system would create the group A, B
7 and separately C, D, were the zone players informed
8 which group they had been added to?

9 MS. BRODY: Objection to form, outside the
10 scope. 14:16:37

11 THE WITNESS: I mean, I can't describe
12 technically what happened, but if the control device
13 wanted A and B to be part of a group, it would have
14 formed them, you're now part of a group called A and
15 B. 14:17:11

16 BY MR. KAPLAN:

17 Q And how long would that information be
18 persisted?

19 MS. BRODY: Objection to form, outside the
20 scope. 14:17:25

21 THE WITNESS: It would assist until the
22 user gave it a different demand for the zone
23 groupings or if there was -- to speculate a bit,
24 there was some technical problem where a player sort
25 of had to drop out of a group. 14:18:04

1 So it would persist until one of those
2 types of events would happen. Again, I don't know
3 technically what was happening to make that work.

4 BY MR. KAPLAN:

5 Q Your invention allowed -- well, strike 14:18:47

6 that.

7 Did your invention allow groups that had
8 been created to be stored for a longer period of
9 time?

10	MS. BRODY: Objection to form.	14:19:10
----	-------------------------------	----------

11 THE WITNESS: Are you talking about
12 invention in the 885 and 966?

13 BY MR. KAPLAN:

14	Q	That's right.
----	---	---------------

15	A	Yes. The design of the Zone Scenes	14:19:25
16		feature, which is part of -- which is describing	
17		those inventions, yes, the user would create room	
18		groupings that would be saved to the players for --	
19		until the user either removed them or some other	
20		technical problem occurred where they might be lost	14:19:54
21		in memory, but I'm speculating there. But in	
22		principle, until the user changed them or removed	
23		them.	

24 Q And prior to that, in the Sonos products,
25 it wasn't guaranteed that a dynamic group would be 14:20:15

1 persistent for as long as the user wanted it to be?

2 MS. BRODY: Objection to form.

3 THE WITNESS: I think the dynamic grouping
4 would persist until the user changed it.

5 BY MR. KAPLAN: 14:21:03

6 Q The Zone Scene -- well, strike that.

7 Did the Zone Scene allow a user to save his
8 or her groupings for longer than he or she had been
9 able to in prior versions of the product?

10 MS. BRODY: Objection to form. 14:21:23

11 THE WITNESS: Yes.

12 BY MR. KAPLAN:

13 Q How so?

14 A Well, the -- in the case of a Zone Scene,
15 the grouping was created, saved to the players or -- 14:21:51

16 player or players. The players would remember the
17 zone grouping that was part of that Zone Scene, and
18 regardless of what grouping happened in between the
19 user saving the scene and the user invoking the
20 scene, the saved scene would be reconstituted. 14:22:21

21 Q And how would that compare to the dynamic
22 grouping scenario that was available prior to that?

23 A Well, the players that were part of a group
24 would know they're part of a group, A and B, for
25 instance. If the user subsequently broke that group 14:23:05

Page 121

1 apart, the player would no longer know that they're
2 part of that group A and B. That was a more
3 transitory thing.

4 Q In the case where you have a single --
5 well, strike that. 14:23:43

6 In the case where you have the zones A and
7 B grouped together -- withdrawn.

8 Were the zone players back in 2004 digital
9 devices or were they analog devices?

10 MS. BRODY: Objection to form, outside the 14:24:37
11 scope.

12 THE WITNESS: Well, I'm not a computer
13 scientist. I can tell you my perspective. I mean,
14 the zone players have computer chips in them which
15 suggest digital products. There was also some 14:25:08
16 aspects of them were -- could convert analog audio
17 stream to digital formats, so I think you have to be
18 more specific in your question.

19 BY MR. KAPLAN:

20 Q Could the zone players receive and process 14:25:34
21 digital information?

22 MS. BRODY: Objection to form.

23 I'm sorry, Marc. I'm sorry.

24 MR. KAPLAN: No problem.

25 /// 14:25:50

1 BY MR. KAPLAN:

2 Q I was going to say, in 2004?

3 MS. BRODY: Objection to form, outside the
4 scope.

5 THE WITNESS: Could the zone player receive 14:25:58
6 digital information in 2004?

7 Again, I'm not an engineer, but they could
8 receive information on an Ethernet network and the
9 wireless network would suggest to me that they could
10 receive digital information. 14:26:34

11 BY MR. KAPLAN:

12 Q I think you mentioned that the zone players
13 have a processor, am I right about that, in 2004?

14 MS. BRODY: Objection to form.

15 THE WITNESS: I don't know how technical 14:27:11
16 you want to get, Mr. Kaplan, but I believe so.

17 BY MR. KAPLAN:

18 Q Do you know if the zone players also
19 included memory in 2004?

20 MS. BRODY: Objection to form, outside the 14:27:26
21 scope.

22 THE WITNESS: In so much as they could
23 remember settings, yes.

24 MR. KAPLAN: I've introduced another
25 exhibit. Exhibit 1075. 14:28:34

Page 123

1 (Whereupon, Plaintiff's Exhibit 1075 was
2 marked for identification by the
3 Court Reporter.)

4 BY MR. KAPLAN:

5 Q Please let me know when you have that up. 14:28:38

6 A Do I have to refresh again? Okay.

7 Q It should just pop up after a little while.

8 A Okay. Yes, I see it.

9 Q Exhibit 1075 is Canadian patents public
10 number 2533852 and the inventor named here is 14:29:09
11 Nicholas Millington.

12 Do you see that?

13 A Yes.

14 Q Have you ever seen this patent before?

15 A Not to my recollection, no. 14:29:32

16 Q Can you take a look at the abstract to this
17 patent, which is at the bottom of the first page.

18 A Okay. I'm glad you're not asking me to
19 read the French version, but yes, I read the
20 abstract. 14:31:20

21 Q I couldn't read that either.

22 This is another patent that generally has
23 to do with audio playback.

24 Could you gather that from the abstract?

25 MS. BRODY: Objection; outside the scope, 14:31:38

Page 124

1 objection to form.

2 THE WITNESS: I don't think the abstract
3 mentions audio playback, but I take it to mean
4 it's -- it describes synchrony, so it would suggest
5 that. 14:32:07

6 BY MR. KAPLAN:

7 Q Can you go to page 45 of this excerpt.

8 MS. BRODY: Counsel, is it still your
9 position that this testimony relates to advantages
10 and disadvantages under topic 1? 14:32:34

11 MR. KAPLAN: It relates at least to that.

12 BY MR. KAPLAN:

13 Q Mr. Lambourne, I'm going to be asking you
14 about -- it's a portion of the second full
15 paragraph. The sentence that begins "moreover." 14:32:56

16 A I see it.

17 Q That portion reads:

18 "Moreover, it will be
19 appreciated that, although the
20 invention has been described in 14:33:15
21 connection with audio
22 information, it will be
23 appreciated that the invention
24 will find utility in connection
25 with any type of isochronias 14:33:23

Page 125

1 information for which synchrony
2 among devices connected to a
3 network is desired. The system
4 is such that synchrony groups are
5 created and destroyed dynamically 14:33:37
6 and in such a manner as to avoid
7 requiring a dedicated device as
8 the master device."

9 Do you see that?

10 A Yes. 14:33:52

11 Q Do you have an understanding of what it
12 means when it says, "The system is such that
13 synchrony groups are created and destroyed
14 dynamically"?

15 MS. BRODY: Objection; outside the scope, 14:34:07
16 calls for expert testimony.

17 THE WITNESS: This is a very technical
18 patent. My understanding -- I'm not sure what
19 isochronias information means, isochronias. The
20 groups play together and they cannot be playing 14:35:01
21 together.

22 MR. KAPLAN: Mr. Lambourne, I have
23 introduced a new exhibit.

24 THE WITNESS: Okay.

25 MS. BRODY: What's the number? 14:36:30

1 MR. KAPLAN: The exhibit is Farrar
2 Exhibit 6. I won't be giving it a new number
3 because we're supposed to try to reuse prior
4 exhibits if possible.

5 (Whereupon, Google's Exhibit 6 was 14:36:48
6 marked for identification by the
7 Court Reporter.)

8 MR. KAPLAN: Please let me know when you
9 see it.

10 THE WITNESS: Yes, I see it. 14:36:52

11 BY MR. KAPLAN:

12 Q Do you know who Graham Farrar is?

13 A Yes.

14 Q Who is that?

15 A He is a colleague. He used to work at 14:37:08
16 Sonos. He no longer works at Sonos. On our quality
17 assurance team I think he was at, at the time.

18 Q Do you have any understanding of whether or
19 not he worked on the Sonos forums?

20 MS. BRODY: Objection to form. 14:37:41

21 THE WITNESS: I don't know whether he did
22 or didn't.

23 BY MR. KAPLAN:

24 Q Have you ever been on the Sonos forums?

25 A I have seen Sonos forums, yes. 14:37:53

1 Q Does Farrar Exhibit 6 look like a printout
2 from the Sonos forums?

3 MS. BRODY: Objection; outside the scope.

4 THE WITNESS: It says Sonos community on
5 it, so I'm assuming that's what's meant by forums 14:38:44
6 here, yes.

7 BY MR. KAPLAN:

8 Q Do you see -- right in the middle of the
9 first page of Farrar Exhibit 6, there's a post from
10 user Jeff T. and he wrote at the paragraph here, but 14:39:02
11 he says, in part:

12 "I did a search and did not
13 find this suggested, but I would
14 save Zone links as favorites.

15 With only two Zone players, it is 14:39:24

16 not a problem yet, but when I add

17 more it may be. I would like to

18 setup, say, Morning mode for the

19 units I want in the morning and a

20 preset volume between units. 14:39:38

21 Another example I would have two

22 party modes, Summer and Winter.

23 The Summer mode would include the

24 deck speakers and the Winter mode

25 would not. Also it would be nice 14:39:50

Page 128

1 to have playlists or radio
2 stations associated with each
3 mode." And continues on from
4 there.

5 Do you see that? 14:40:00

6 A I see that, yes.

7 Q The title of this is posed "macro/presets."

8 Do you see that?

9 A Yes.

10 Q Do you understand what Jeff it's describing 14:40:13

11 here as a feature suggestion?

12 MS. BRODY: Objection to form, outside the
13 scope.

14 THE WITNESS: Yeah. He's asking to save
15 zone links as favorites. 14:40:38

16 BY MR. KAPLAN:

17 Q What does that mean to you, saving zone
18 links as favorites?

19 MS. BRODY: Objection; outside the scope.

20 THE WITNESS: He's asking to save -- he's 14:41:06
21 describing a situation which he would like to
22 save -- save, I think -- I would say save zone links
23 could be save groupings.

24 BY MR. KAPLAN:

25 Q Do you understand what a favorite would be? 14:41:39

1 MS. BRODY: Objection to form, outside the
2 scope.

3 THE WITNESS: To save a favorite, yeah, is
4 to save a group.

5 BY MR. KAPLAN: 14:42:00

6 Q If you go to the second page, there's a
7 post from a user named Ken Greenwood and he or she
8 writes:

9 "I would find this
10 functionality useful as well... I 14:42:11
11 find myself manually linking and
12 unlinking zones and setting
13 volumes in a very repetitive way.
14 I would think that a macro type
15 function would be able to save 14:42:28
16 those manual steps into a single
17 selection of a favorite."

18 Do you see that?

19 A I do, yes.

20 Q Do you have an understanding of what the 14:42:38
21 user Ken Greenwood is saying here?

22 MS. BRODY: Objection; outside the scope.

23 THE WITNESS: Yeah. They're asking for
24 some way of -- they said the volumes and the linking
25 in a perfect way they want to be able to save those 14:43:00

Page 130

1 manual steps into a single selection.

2 BY MR. KAPLAN:

3 Q Did your invention address the concerns of
4 these users through adding Zone Scenes?

5 MS. BRODY: Objection to form. 14:43:21

6 THE WITNESS: Yes. My invention would
7 describe the need described here.

8 BY MR. KAPLAN:

9 Q Why is that?

10 A By allowing a user to save zone groupings 14:43:45
11 or linking, as being referred to here.

12 Q Was the zone linking another way to
13 describe linking zones into a group?

14 MS. BRODY: Objection to form.

15 THE WITNESS: Yes. Linking and unlinking 14:44:22
16 would result in a group being formed or a group
17 being broken apart.

18 BY MR. KAPLAN:

19 Q If you turn to the second page of Exhibit
20 Farrar 6, there's a post by user called -- user name 14:45:12
21 sinuswave.

22 Do you see that?

23 I'm sorry. I'm on the third page. I
24 apologize.

25 A Yes, I see that, sinuswave. 14:45:32

Page 131

1 Q This is a rather long post from him, but
2 can you read it quickly to yourself.

3 A Yes.

4 (Document reviewed by the witness.)

5 MR. KAPLAN: Let me know when you're done. 14:46:40

6 THE WITNESS: Yes, I've read it.

7 BY MR. KAPLAN:

8 Q Do you have an understanding of what the
9 user sinuswave is requesting here or proposing here?

10 MS. BRODY: Objection; outside the scope. 14:46:56

11 THE WITNESS: Well, they're asking for the
12 capability to -- well, I have to find the right word
13 here. I think I saw it.

14 To save or store --

15 "When special playlists are 14:47:26

16 saved/stored the user can set the

17 zone structures, zone volumes,

18 zone on/off, etc, and allow it to

19 be SAVED with the playlist."

20 BY MR. KAPLAN: 14:47:39

21 Q Would your invention regarding Zone Scenes
22 address this request or proposal from sinuswave?

23 MS. BRODY: Objection to form, outside the
24 scope.

25 THE WITNESS: Insomuch as the zone 14:48:12

1 structure, I'm speculating he means something like a
2 zone group can be saved. In this case, it's saving
3 with the playlist that he's describing a need for.

4 BY MR. KAPLAN:

5 Q Could a user -- strike that. 14:48:32

6 Under your invention, could a user include
7 a playlist as part of the Zone Scene?

8 MS. BRODY: Objection to form.

9 THE WITNESS: I think broadly speaking,
10 yes, a number of attributes were described in the 14:49:10
11 invention whereby a zone group could have a number
12 of attributes, like volumes, for instance. I think
13 playlist is on that. So broadly speaking, yes.

14 BY MR. KAPLAN:

15 Q Are you referring to a list of attributes? 14:49:42

16 A Or for Zone Scenes.

17 If I'm remembering -- oh, I got that
18 feedback.

19 Q I heard it, too.

20 A That's the first time I heard it this 14:50:00
21 session.

22 But I believe the amount of patents I
23 reviewed there was a list of attributes that would
24 be saved or be part of a Zone Scene.

25 Q Did you agree with that list of attributes? 14:50:20

1 MS. BRODY: Objection to form.

2 THE WITNESS: Yes.

3 BY MR. KAPLAN:

4 Q The next post down after sinuswave's post,
5 was a post from user named Majik, M-A-J-I-K, but he 14:50:42
6 signs it Keith, so maybe he's actually Keith.

7 Do you see that?

8 It's at the bottom of page 3.

9 A Yes.

10 Q And Keith wrote: 14:51:02

11 "This could be called

12 'Scenes.' "

13 Do you see that?

14 A Yes.

15 Q Is it surprising to you that Keith is 14:51:12
16 suggesting that this user be called scenes?

17 MS. BRODY: Objection to form, outside the
18 scope.

19 THE WITNESS: Did it surprise me?

20 In what way? 14:51:28

21 BY MR. KAPLAN:

22 Q Your invention was Zone Scenes; right?

23 A Yes.

24 Q And also here's a user on some of those
25 forums referring to scenes with respect to similar 14:51:41

1 technology.

2 Does that surprise you?

3 MS. BRODY: Objection to form, outside the
4 scope.

5 THE WITNESS: I mean, described in form -- 14:51:59
6 they describe scenarios sometimes with a happy word,
7 sometimes with not happy words, so it didn't
8 surprise me that a user might be discussing -- or
9 users might be discussing needs that they feel
10 having used the system. 14:52:17

11 BY MR. KAPLAN:

12 Q Does it surprise you that he used the same
13 word that you used vis-a-vie scenes?

14 MS. BRODY: Objection to form, outside the
15 scope. 14:52:39

16 THE WITNESS: Does it surprise me?
17 I don't know if it surprises me or not.

18 MR. KAPLAN: Okay. I'm introducing a new
19 exhibit. You should see a new exhibit pop up
20 shortly. It's titled Farrar 8. 14:53:52

21 (Whereupon, Google's Exhibit 8 was
22 marked for identification by the
23 Court Reporter.)

24 MR. KAPLAN: This was Exhibit 8 to the
25 Farrar deposition. 14:54:06

Page 135

1 THE WITNESS: Yes, I have it open.

2 BY MR. KAPLAN:

3 Q Okay. This is another set of posts on the
4 Sonos forums.

5 Is that what it looks like to you? 14:54:28

6 MS. BRODY: Objection; outside the scope.

7 THE WITNESS: Yes. It looks to be from the
8 same Sonos community we were just looking at.

9 BY MR. KAPLAN:

10 Q The first post -- well, strike that. 14:54:45

11 The title of the thread is "Virtual Zones
12 and Zone Grouping."

13 Do you see that?

14 A Yes.

15 Q The first post is from a user named theboyg 14:54:58

16 and he or she writes this quote:

17 "The 'links/unlink' business
18 is really cumbersome - and not
19 enjoyed to use which goes against

20 the ease of use on the rest of 14:55:19

21 the system. Why can't that have

22 a virtual zone - ie a zone called

23 'Downstairs' - and I can group

24 all my downstairs zones into

25 this. Then I don't have to keep 14:55:30

Page 136

1 manually linking/unlinking

2 multiple zones every time."

3 Do you see that?

4 A I do, yes.

5 Q Do you understand what the theboyg is 14:55:42

6 proposing here?

7 MS. BRODY: Objection to form, outside the

8 scope.

9 THE WITNESS: Yeah. The theboyg is

10 describing what a virtual zone that can group all my 14:56:03

11 downstairs zones into this virtual zone.

12 BY MR. KAPLAN:

13 Q Is the theboyg -- strike that.

14 Would your invention of Zone Scenes respond

15 to the theboyg's concerns about having to link zones 14:56:32

16 many times?

17 MS. BRODY: Objection to form, outside the

18 scope.

19 THE WITNESS: Yes. I think the theboyg was

20 linking and unlinking lots of times and a Zone Scene 14:57:02

21 would save this person having to do that every time

22 that they wanted to group what they call the

23 downstairs group.

24 BY MR. KAPLAN:

25 Q Neither here or there, but there is 14:57:22

1 something hilarious to me about having a formal
2 legal proceeding and then also having users with
3 names like the theboyg that we get to talk about.

4 A Hard to resist.

5 Q If we turn down to the third page of Farrar 14:57:47
6 Exhibit 8, there's a post from -- these are Majik
7 again signed Keith.

8 A Yes.

9 Q He writes:

10 "The ease of" -- I think he 14:58:04
11 means linking he wrote
12 "lining/unlinking zones is also
13 dependent on the number of zones
14 you have. Two or three zones
15 isn't too much of an imposition, 14:58:15
16 but I imagine six or more is
17 quite painful. Just imagine if
18 you had the full 32 zones. At
19 the moment we have a single,
20 predefined group, that being, 14:58:28
21 'All Zones.' I would like to see
22 this as the default, but with
23 the ability to configure your own
24 groups and to delete the 'All
25 zones' group, although some may 14:58:39

Page 138

1 not want this."

2 L he goes on from there.

3 Do you see that?

4 A I see that, yes.

5 Q Do you understand that this user Majik is 14:58:51
6 also requesting an easier way to link and unlink,
7 ie, create speaker groups?

8 MS. BRODY: Objection to form, outside the
9 scope.

10 THE WITNESS: Yes. He's describing the 14:59:27
11 need in which saved groups would be an advantage.

12 BY MR. KAPLAN:

13 Q He's noting here I guess from the current
14 implementation at that time, there was just a single
15 predefined group called "all zones." 14:59:48

16 Was he correct about that or was it called
17 Party Mode?

18 MS. BRODY: Objection; outside the scope.

19 THE WITNESS: I think in one of the
20 previous screens we saw we had a label all zones, 15:00:11
21 Party Mode. So we may have -- I couldn't say with
22 certainty when he's referring to this, but we may
23 have called it all zones at one point and then Party
24 Mode at -- all zones, Party Mode at another time. I
25 couldn't be sure. 15:00:33

Page 139

1 BY MR. KAPLAN:

2 Q And Keith is also requesting that the user
3 be able to create their own zones that are saved
4 just like all zones. I'm sorry. Strike that.

5 Keith is creating the ability to user's own 15:00:52
6 groups like the all zones group; right?

7 MS. BRODY: Objection to form, outside the
8 scope.

9 THE WITNESS: He's describing the ability
10 for a user to configure their own groups. 15:01:16

11 BY MR. KAPLAN:

12 Q And then the next post, which is on top of
13 page 4 from a user named DigitalBoy. He writes:

14 "I like the idea. Why not
15 have custom zone groups," in 15:01:35
16 paren, "(like the party zone, but
17 user customizable)?," end paren.

18 "A Zone can be in one or more
19 zone groups. Further you should
20 be able to activate group, and 15:01:48
21 then add/drop individual zones
22 for a one-off group (which is
23 what we have now, but no ability
24 to persist the group)."

25 Do you see that? 15:02:00

1 A Yes.

2 Q Do you understand what the DigitalBoy is
3 requesting here?

4 MS. BRODY: Objection to form, outside the
5 scope. 15:02:10

6 THE WITNESS: Yes. He's asking a custom
7 zone groups.

8 BY MR. KAPLAN:

9 Q Did your invention of Zone Scenes address
10 the DigitalBoy's request or dislike of the current 15:02:29
11 system at that time?

12 MS. BRODY: Objection to form, outside the
13 scope.

14 THE WITNESS: I think in broad terms, yes.

15 BY MR. KAPLAN: 15:03:27

16 Q Okay. Do you recall visiting the Sonos
17 forums while you were doing Sonos products sort of
18 in the 2004 to 2006 timeframe?

19 MS. BRODY: Objection to form, outside the
20 scope. 15:03:42

21 THE WITNESS: I have seen forums, yes.

22 BY MR. KAPLAN:

23 Q Why did you visit the forums in that
24 timeframe?

25 A To see what people were saying about our 15:03:55

1 products that we released. I say "released." I
2 don't think we released in 2004 timeframe. I don't
3 think we were selling our products at that point.

4 Q Did that begin in early 2005, selling the
5 products? 15:04:32

6 MS. BRODY: Objection; outside the scope.

7 THE WITNESS: I believe in 2005, but I
8 can't say with certainty exactly where.

9 BY MR. KAPLAN:

10 Q Were the forums active among Sonos users at 15:04:58
11 that time?

12 MS. BRODY: Objection to form, outside the
13 scope.

14 THE WITNESS: You said this time.

15 What time are you referring to? 15:05:16

16 BY MR. KAPLAN:

17 Q In the late 2004 to 2006 timeframe.

18 MS. BRODY: Same objections.

19 THE WITNESS: I think forums, but I
20 couldn't say when they were active, when they 15:05:37
21 started.

22 BY MR. KAPLAN:

23 Q Did any of the Sonos teams review the
24 forums such that they could understand whether they
25 were bug fixes or issues that needed to be addressed 15:06:01

1 for the products?

2 MS. BRODY: Objection to form, outside the
3 scope.

4 THE WITNESS: I don't know, but it sounded
5 like Graham Farrar was reading them. 15:06:19

6 BY MR. KAPLAN:

7 Q Did any of the product management teams
8 review the forums to identify consumer pinpoints?

9 MS. BRODY: Objection; outside the scope.

10 THE WITNESS: I imagine that might have 15:06:45
11 happened, but I couldn't say the specific person or
12 time.

13 BY MR. KAPLAN:

14 Q Did you ever review the Sonos forums to
15 determine whether they were particular consumer pain 15:07:05
16 points with any of the Sonos products?

17 MS. BRODY: Objection to form, outside the
18 scope.

19 THE WITNESS: I read forum posts from time
20 to time, yes. 15:07:23

21 BY MR. KAPLAN:

22 Q Why did you read forum posts from time to
23 time?

24 MS. BRODY: Objection; outside the scope.

25 THE WITNESS: To see what people were 15:07:35

Page 143

1 saying about our product.

2 BY MR. KAPLAN:

3 Q How did the feedback that you were getting
4 through the Sonos forums affect your work?

5 MS. BRODY: Objection to form. 15:07:53

6 THE WITNESS: I think -- I mean, it would
7 depend what the comments were, but people might
8 describe situations in which they were not happy,
9 which we might try and solve for, or for situations
10 which they were happy which we know that that was a 15:08:23
11 good thing. Generally feedback.

12 MR. KAPLAN: I'm having technical issues.
13 One second.

14 Okay. I'm uploading another exhibit.

15 THE WITNESS: Yes. 15:10:00

16 MR. KAPLAN: This one is a little larger so
17 it may take a second to load.

18 THE WITNESS: Okay.

19 MR. KAPLAN: It will be Exhibit 1076 once
20 you get it up. 15:10:20

21 (Whereupon, Google's Exhibit 1076 was
22 marked for identification by the
23 Court Reporter.)

24 THE WITNESS: I went to the wrong place.

25 One moment. 15:10:30

1 1076, yes.

2 BY MR. KAPLAN:

3 Q Exhibit 1076 is the Yamaha MusicCAST

4 Digital Audio Server Owner's Manual.

5 Do you see that? 15:10:48

6 A Yes.

7 Q The Yamaha MusicCAST product's one that I

8 believe you mentioned earlier on in the deposition?

9 A Yes.

10 Q This is a product that you were familiar 15:11:01

11 with in this 2004 timeframe; is that fair?

12 MS. BRODY: Objection to form.

13 THE WITNESS: I'm somewhat familiar with

14 it. I knew of its existence. I don't think I used

15 the product. 15:11:21

16 BY MR. KAPLAN:

17 Q Have you ever seen this owner manual

18 before?

19 A Let me just scan through, please.

20 Q Whenever you're ready, I will be asking you 15:13:23

21 questions about page 92.

22 A Okay. You asked me have I seen this

23 manual? I don't recall it. It's part -- as I

24 stated, I knew of the product, so it's possible I

25 have seen it. But it was a long time ago. I don't 15:13:37

Page 145

1 recall.

2 You said page 92?

3 Q Yes, yes, page 92 of the PDF.

4 MS. BRODY: Counsel, is that the page

5 numbered 92, or the PDF? 15:14:06

6 MR. KAPLAN: I think it's the same.

7 MS. BRODY: Never mind. It's the same.

8 Sorry.

9 THE WITNESS: It's taking a long time to
10 load here. 15:14:20

11 MR. KAPLAN: Yeah. It's a larger one.

12 Once you have it up, you can use the scroll

13 on the side instead of paging down or scrolling

14 down. Just grab it and drag it down. It's a little

15 faster. 15:14:33

16 THE WITNESS: I don't see it on my screen,

17 but I'm almost there any way.

18 92, yes.

19 BY MR. KAPLAN:

20 Q So the top of the page it reads 15:14:46

21 "Controlling MusicCAST clients"?

22 A Yes.

23 Q There are a few images above those image.

24 There's a line that reads:

25 "You can check the current 15:15:06

1 status of any MusicCAST client
2 connected to the MusicCAST
3 server."

4 Do you see that?

5 A Yes. 15:15:15

6 Q Do you remember what the MusicCAST client
7 was in this product?

8 MS. BRODY: Objection; outside the scope.

9 THE WITNESS: Actually, I don't, no. I
10 would have to read a little bit further. Maybe you 15:15:36
11 know.

12 BY MR. KAPLAN:

13 Q Well, let's -- if you look at the first
14 image here on the left, it says top menu and then
15 the options within that are library, AV receiver, 15:15:52
16 and timer setup, information, recording, client
17 playback and system setup.

18 Do you see that?

19 A Yes.

20 Q Client playback is selected. And then if 15:16:08
21 you look in the next image down, you'll see client
22 menu and simple play info.

23 Do you see that?

24 A Yes.

25 Q And in that screen, there are two clients. 15:16:23

Page 147

1 One that's labeled den and one that's labeled

2 kitchen, and I believe the music that each of those

3 is playing is listed below the name of the client.

4 Do you see that?

5 A Yes. 15:16:45

6 Q And then right below the image that we were

7 just looking at it reads:

8 "The on-screen display can

9 display details on up to five

10 MusicCAST clients 15:17:02

11 simultaneously."

12 Do you see that?

13 A I do, yes.

14 Q Does this refresh your recollection as to

15 whether or not the MusicCAST system allowed the user 15:17:15

16 to install clients in different areas of their

17 house, such as the den or kitchen?

18 MS. BRODY: Objection to form, outside the

19 scope.

20 THE WITNESS: That looks to be the case. 15:17:41

21 There is a client called den and a client called

22 kitchen.

23 BY MR. KAPLAN:

24 Q If you turn to page 95 of the document.

25 A Okay. 15:17:58

1 Q Do you see at the top in that black box, it
2 reads, "Stopping and starting playback on all
3 MusicCAST clients simultaneously"?

4 Do you see that?

5 A Yes. 15:18:10

6 Q Does this refresh your recollection as to
7 whether or not you could playback music
8 simultaneously in different clients in the MusicCAST
9 system?

10 MS. BRODY: Objection to form, outside the 15:18:24
11 scope.

12 THE WITNESS: What was your question again,
13 please?

14 BY MR. KAPLAN:

15 Q Does this refresh your recollection as to 15:18:52
16 whether or not you could playback music
17 simultaneously on multiple MusicCAST clients?

18 MS. BRODY: Same objections.

19 THE WITNESS: Well, it states that you can
20 start playback on all clients and you can stop 15:19:10
21 playback on all clients. It does not say whether
22 they play in a synchronized way.

23 BY MR. KAPLAN:

24 Q Let's turn to page 96 of the document.

25 A Okay. 15:19:52

1 Q Do you see at the top of page 96 it says
2 "Editing MusicCAST client names"?

3 A Yes.

4 Q And then below that there's three
5 screenshots where the user is selecting a client, 15:20:06
6 selecting edit name and then changing the name from
7 kitchen to something else?

8 Do you see that?

9 A Yes.

10 Q Does this refresh your recollection as to 15:20:31
11 whether or not the MusicCAST client could rename --
12 strike that, I suppose.

13 Does this refresh your recollection as to
14 whether a user could modify the name of a MusicCAST
15 client? 15:20:46

16 MS. BRODY: Objection to form, outside the
17 scope.

18 THE WITNESS: Yes. It looks to be the case
19 that a user can change the name given to a MusicCAST
20 client. 15:21:10

21 BY MR. KAPLAN:

22 Q And then if we turn to page 104 of the
23 document.

24 At the top of the page, the black box reads
25 "Configuring the MusicCAST network." 15:21:32

1 Below that it says:

2 "What is a wireless network
3 connection, and when should I use
4 one."

5 Do you see that? 15:21:39

6 A Yes.

7 Q Does it refresh your recollection that
8 MusicCAST could -- strike that.

9 Does this refresh your recollection that
10 MusicCAST clients could communicate wirelessly? 15:21:54

11 MS. BRODY: Objection to form, outside the
12 scope.

13 THE WITNESS: Your question again, please,
14 Mr. Kaplan.

15 BY MR. KAPLAN: 15:22:37

16 Q Sure.

17 The question is: Does this refresh your
18 recollection that MusicCAST clients could be played
19 to wirelessly?

20 MS. BRODY: Same objections. 15:22:50

21 THE WITNESS: Does it refresh my memory? I
22 don't recall thinking about this originally, but I
23 can say what I think I'm looking at here.

24 Is that what you're asking me to say?

25 /// 15:23:17

1 BY MR. KAPLAN:

2 Q Does it appear that MusicCAST allowed its
3 client players to communicate wirelessly with the
4 controller?

5 MS. BRODY: Objection to form, outside the 15:23:28
6 scope.

7 THE WITNESS: Based on what it states here,
8 it looks like a MusicCAST client can talk to the
9 MusicCAST server wirelessly.

10 BY MR. KAPLAN: 15:24:07

11 Q The MusicCAST system, the MusicCAST server
12 would be streaming audio to the MusicCAST clients;
13 right?

14 MS. BRODY: Objection to form, outside the
15 scope. 15:24:20

16 THE WITNESS: There's a part I'm assuming
17 the MusicCAST server streams music, that this is
18 showing them it's streaming in a wireless way to
19 music class client.

20 MR. KAPLAN: Do you want to take a quick 15:25:00
21 break?

22 THE WITNESS: Yes, please.

23 THE VIDEOGRAPHER: We're going off the
24 record. The time is 3:25.

25 /// 15:25:05

1 (Whereupon, a recess was held
2 from 3:25 p.m. to 3:36 p.m.)

3 THE VIDEOGRAPHER: We're back on the
4 record. The time is 3:36.

5 MR. KAPLAN: Mr. Lambourne, I have 15:36:29
6 introduced Exhibits 1077 and 1078 into the folder.
7 We can start with 1077.

8 (Whereupon, Google's Exhibit 1077
9 Exhibit 1078 were marked for identification
10 by the Court Reporter.) 15:36:50

11 THE WITNESS: Okay.

12 BY MR. KAPLAN:

13 Q This is the Sonos Digital Music System User
14 Guide. Second page it's dated April 2005.

15 Do you see that? 15:37:04

16 A Yes.

17 Q Are you familiar with this document?

18 A I didn't write it, but yes, I'm familiar
19 with the document.

20 Q This is one of the user guides that Sonos 15:37:28
21 issued so that users can understand how to operate
22 from it?

23 A Yes.

24 Q The top of the second page, it says:

25 "For use with Sonos Zone 15:37:40

Page 153

1 Player 100, including Sonos

2 System Setup CD-ROM and the Sonos

3 controller CR 100."

4 Do you see that?

5 A Yes. 15:37:53

6 Q This is the user guide for the ZP 100 and

7 CR 100 that you mentioned earlier today?

8 A Yes.

9 MS. BRODY: Objection to form.

10 BY MR. KAPLAN: 15:38:15

11 Q If you could turn to page 3 of the

12 document, which is the table of contents --

13 A Okay.

14 Q -- says on page 2-7, that the user guide is

15 discussing adding more zone players. 15:38:32

16 Do you see that?

17 A I'm sorry. You're on page 3 referring to

18 which line?

19 Q On page 3 referring to line -- oh.

20 Is it page 3? Sorry. 15:39:00

21 Yeah, page 3. Let's see.

22 It's the line that reads 2-7 under Chapter

23 2.

24 A Oh, yes. Thank you.

25 Q Yep. It says "Adding More Zone Players." 15:39:22

Page 154

1 A Yes.

2 Q Okay. Now, let's please turn to page 6 of
3 the document.

4 A Yes.

5 Q This page is an illustration of a setup of 15:39:45
6 ZP 100s with a CR 100 wirelessly.

7 Do you see that?

8 A Yes.

9 Q If you turn to page 12 of the document,
10 please. 15:40:00

11 A Yes.

12 Q Page 12.

13 Okay. There's a section entitled "Mute
14 Button" in the middle that's highlighted in blue.

15 A Yes. 15:40:24

16 Q And in the second paragraph on the right in
17 that blue portion, it reads:

18 "To mute/unmute all Zone

19 Players, press and hold the mute

20 button for three seconds to mute 15:40:40

21 all Zone Players in your

22 household."

23 Do you see that?

24 A Yes.

25 Q Was there a group that was used to mute or 15:40:47

1 unmute all Zone Players in the household?

2 MS. BRODY: Objection to form, outside the
3 scope.

4 THE WITNESS: Did you say was there a group
5 used? 15:41:02

6 BY MR. KAPLAN:

7 Q Was there a group that was used to mute or
8 unmute all the Zone Players in the household?

9 MS. BRODY: Same objections.

10 THE WITNESS: In the context of a group 15:41:23
11 meaning more than -- two or more players grouped
12 together in the way we've been discussing?

13 BY MR. KAPLAN:

14 Q Let's start with that, yes.

15 MS. BRODY: Counsel, are you asking another 15:41:52
16 one or is what is the pending question?

17 BY MR. KAPLAN:

18 Q The pending question is: Was there a group
19 that was used to mute or unmute all Zone Players in
20 the household? 15:42:04

21 MS. BRODY: Objection to form, asked and
22 answered -- I'm sorry.

23 Objection to form, outside the scope.

24 THE WITNESS: Okay. Technically I don't
25 know. From a user perspective, the players didn't 15:42:19

Page 156

1 have to be in a group for this to work. They could
2 all be separate and the user would still -- if I
3 recall correctly, the user would be able to still
4 unmute or mute all the speakers, whether they were
5 grouped or not in the user interface.

15:42:40

6 BY MR. KAPLAN:

7 Q Let's turn to page 13, please.

8 A Okay.

9 Q Does this look like the back panel of a
10 ZP 100?

15:43:12

11 A Yes.

12 Q The back panel of the ZP 100 included
13 analog audio inputs and outputs?

14 MS. BRODY: Objection; outside the scope.

15 THE WITNESS: Yes.

15:43:37

16 BY MR. KAPLAN:

17 Q And also Ethernet switch connectors?

18 A Yes.

19 Q And it also included right speaker

20 terminals and left speaker terminals.

15:44:01

21 What do those relate to?

22 MS. BRODY: Objection to form, outside the
23 scope.

24 THE WITNESS: Well, on this particular

25 product, speakers, like I don't know how to describe

15:44:15

Page 157

1 select in terms of the name for the Sonos Player,
2 such as bedroom, or kitchen; correct?

3 A Yes.

4 Q Let's go to page 24, please.

5 A Okay. I'm there. 15:47:03

6 Q Under "Renaming a Zone Player" there's a
7 number 3. It says:

8 "Select a name from the
9 drop-down list, or type a new
10 name for this Zone Player in the 15:47:13
11 Zone Name field and click Next."

12 Do you see that?

13 A Yes.

14 Q A user could select a pre-populated name
15 from a list and use that as the name of the Zone 15:47:26
16 Player or they could type in their own custom name
17 for the Zone Player; right?

18 MS. BRODY: Objection; outside the scope.

19 THE WITNESS: Yes. That's how a Zone
20 Player could be named. 15:47:43

21 BY MR. KAPLAN:

22 Q Let's go to page 25, please.

23 A Okay.

24 Q This is a screenshot of the desktop
25 controller main menu for the Sonos desktop 15:48:03

1 controller software.

2 Do you see that?

3 A Yes.

4 Q In the lower left corner of this document,

5 there are buttons that say "Link Zone" and "Drop 15:48:21

6 Zone."

7 Do you see that?

8 A Yes.

9 Q The link zone button would have been used

10 to link zones together to create groups; right? 15:48:35

11 MS. BRODY: Objection to form, outside the

12 scope.

13 THE WITNESS: Yes, that was its intent.

14 BY MR. KAPLAN:

15 Q And the groups that would have been created 15:48:52

16 would have been dynamic groups; right?

17 A Yes, I believe so.

18 Q Where would the user have selected the

19 party mode zone?

20 MS. BRODY: Objection to form, outside the 15:49:18

21 scope.

22 THE WITNESS: I think, and I don't know if

23 this manual includes the dialogue that's subsequent,

24 but if a user had link zone, then in this particular

25 design party mode would be part of that dialogue 15:49:48

Page 160

1 that's shown after pressing link zone.

2 BY MR. KAPLAN:

3 Q Let's see if I can help.

4 If we go to page 29 of the document there's

5 a section that says "Zone groups." 15:50:39

6 A 29?

7 Q Correct.

8 A Oh, yes, yes.

9 Q There's zone groups. It reads:

10 "A zone can be grouped 15:50:53

11 together with any other zone(s)

12 to form a zone group. This will

13 cause all the zones in the zone

14 group to play the same music.

15 You can link or drop zones from a 15:51:05

16 zone group while the music is

17 playing. You can also link all

18 the Zone Players in your House

19 with one touch by selecting All

20 Zones-Party Mode." 15:51:20

21 Do you see that?

22 A Yes.

23 Q If you then turn to page 30.

24 A Okay.

25 Q In the middle of the page there's a link, 15:51:37

Page 161

1 zone dialogue box.

2 Do you see that?

3 A Yes.

4 Q There are two options in that link zone

5 dialogue box for what can be linked to kitchen. One 15:51:50

6 says all modes -- excuse me.

7 One says "all zones party mode" and another

8 says "Jack's room."

9 Do you see that?

10 A Yes. 15:52:01

11 Q Does that refresh your recollection about

12 how party mode is invoked using that linked zone

13 button?

14 MS. BRODY: Objection to form, outside the

15 scope. 15:52:15

16 THE WITNESS: Yes. I think that's what I

17 said earlier when the user presses link zone and

18 this particular design, the party mode is available

19 when the user enters the link zone dialogue.

20 BY MR. KAPLAN: 15:52:47

21 Q Can you turn back to page 27.

22 A Yes.

23 Q Page 27 discusses controlling the volume of

24 zones and groups.

25 Do you see that? 15:53:09

1 A It says control on the volume.

2 Are you referring to the title of the
3 screen or the body text?

4 Q I was referring to about two-thirds of the
5 way down it reads "To mute a zone or zone group." 15:53:44

6 Do you see that?

7 A Yes, I see that.

8 Q A user was able to mute zone groups by
9 hitting the mute selected group button; right?

10 MS. BRODY: Objection; outside the scope. 15:54:04

11 THE WITNESS: I'm sorry. I'm not seeing --
12 you're reading the words a user is able to. I don't
13 see those words now.

14 Are we looking at the same place?

15 BY MR. KAPLAN: 15:54:25

16 Q I wasn't actually quoting from the document
17 at that point.

18 A Okay.

19 Q I'm saying, based on this portion of the
20 document, does it refresh your recollection that a 15:54:30
21 user in April 2005-ish was able to mute groups of
22 the CP 100s?

23 MS. BRODY: Objection to form, outside the
24 scope.

25 THE WITNESS: Yes. The user was able to 15:55:08

1 BY MR. KAPLAN:

2 Q Let's go to page 28, please.

3 A Okay.

4 Q In the middle of the page there's a
5 dialogue box that says "zone equalizer." On the 15:57:16
6 left-hand side there's an identifier pointing to the
7 group volume control.

8 Do you see that?

9 A Yes.

10 Q It was possible for the user of the ZP 100s 15:57:31
11 to control the volume of ZP 100s within a group and
12 they would be controlling the group volume together;
13 right?

14 MS. BRODY: Objection to form, outside the
15 scope. 15:57:53

16 THE WITNESS: Can you repeat the question?

17 I'm not --

18 BY MR. KAPLAN:

19 Q It wasn't a great question. Let me try
20 again. 15:58:02

21 Do you recall a user could control the
22 volume of a Zone Player group in this timeframe?

23 MS. BRODY: Objection to form.

24 THE WITNESS: Yes. A user could control
25 the volume of a group of speakers in this timeframe. 15:58:26

Page 165

1 MR. KAPLAN: Go to page 30, please.

2 THE WITNESS: Okay.

3 BY MR. KAPLAN:

4 Q In the link zone dialogue box that's about

5 halfway down the page -- 15:59:21

6 A Yes.

7 Q -- if the zone room had previously been

8 grouped with another zone called A, what would show

9 up in this dialogue box?

10 MS. BRODY: Objection to form, outside the 15:59:45

11 scope.

12 THE WITNESS: If you set up Jack's room was

13 linked to zone A, I can't recall standing here today

14 whether it would show Jack's room plus A or Jack's

15 room and A, a separate line item in that list. 16:00:15

16 BY MR. KAPLAN:

17 Q Is it possible to -- strike that.

18 Was it possible in this timeframe to create

19 a group of three Zone Players?

20 MS. BRODY: Objection to form, outside the 16:00:35

21 scope.

22 THE WITNESS: Yes. It was possible to

23 create a group of three zones.

24 BY MR. KAPLAN:

25 Q How would one have done that using the 16:00:46

Page 166

1 desktop controller software?

2 MS. BRODY: Objection; outside the scope.

3 THE WITNESS: The user would have

4 highlighted one of the zones in the zone panel,

5 pressed link zone and then a dialogue would appear 16:01:05

6 with the speakers that were possible to link to this

7 party zone and they would have selected them and

8 then pressed okay.

9 BY MR. KAPLAN:

10 Q So the user could select multiple zones to 16:01:31

11 link in the link zone dialogue box?

12 MS. BRODY: Objection to form, outside the

13 scope.

14 THE WITNESS: I'm sorry. Can you repeat

15 your question? I lost it. 16:02:08

16 BY MR. KAPLAN:

17 Q Just following along with what you said,

18 and I'm just trying to make sure I had it right, I

19 think what you said is you would create a zone group

20 of three Zone Players would be you select one Zone 16:02:20

21 Player, you hit link zone, and then in that link

22 zone dialogue box you select the other two Zone

23 Players and then hit okay; is that right?

24 MS. BRODY: Objection to form, outside the

25 scope. 16:02:39

1 THE WITNESS: I said that standing here
2 today, I don't recollect whether in this instance of
3 the design, the user could multi select rooms that
4 would be added to the original speaker or they had
5 to be added one at a time. 16:02:57

6 BY MR. KAPLAN:

7 Q Just so we're on the same page going
8 forward, would you refer to this middle box on
9 page 30 as a dialogue box?

10 A I would, yes. 16:03:21

11 Q Now, there's a blue box at the bottom of
12 page 30. It says:

13 "The order in which you add a
14 zone makes a difference. If you
15 select link zone from a zone 16:03:44
16 where there is no music playing,
17 any zone you link to it will also
18 be silent."

19 A Yes.

20 Q I believe you testified earlier that this 16:04:03
21 was one of the implementations, and the
22 implementations for what happened when you added a
23 speaker to a group changed over time; is that right?

24 MS. BRODY: Objection to form, outside the
25 scope. 16:04:18

1 THE WITNESS: Yes. I said evolved in that
2 interaction.

3 BY MR. KAPLAN:

4 Q Evolved in that interaction.

5 A Sorry. So we evolved that interaction. We 16:04:36
6 changed the way it worked over time.

7 Q Okay. If you turn to page 31 of the
8 document, there's a dialogue box about a third of
9 the way down that says "drop zone." It says within
10 that, select a zone to drop from Jack's room plus 16:05:19
11 kitchen and then there are two options, Jack's room
12 and kitchen.

13 A Yes, yes.

14 Q This is showing a design for how a user
15 would unlink a zone; is that right? 16:05:34

16 MS. BRODY: Objection to form, outside the
17 scope.

18 Counsel, your questions are primarily
19 seeking to have this witness interpret or describe
20 the prior art. It's not related to the scope of the 16:05:45
21 testimony in which he was designated under topics 1
22 and 2 and it's an improper use of the 30(b)(6)
23 testimony and should be separately transcribed.

24 It has nothing to do with the advantages
25 and disadvantages. You've asked no question that 16:06:02

Page 169

1 relates to that subject matter.

2 MR. KAPLAN: Well, we talked about the
3 scope of the invention earlier, so we're allowed to
4 compare what was going on before to the invention,
5 so that's where the questions are directed to. 16:06:13

6 MS. BRODY: Yeah, but --

7 MR. KAPLAN: Hang on, Amy, I'm not done.

8 But what I would say is because it makes no
9 difference since you're objecting to scope anyway,
10 I'm happy to have the court reporter notate that we 16:06:23
11 can start during this section, that this is part of
12 the personal deposition transcript.

13 I'll just note for the record that we
14 disagree and we think it is a 30(b)(6) testimony.

15 MS. BRODY: Well, this testimony -- this 16:06:38
16 broad scope of testimony started hours ago and calls
17 for expert testimony and legal conclusions and it's
18 improper for a fact witness to be speaking to it.

19 It should have started individual testimony a while
20 ago, as I requested under Judge Culpert's 16:06:51
21 supplemental order, and I would like it separately
22 transcribed, because this has nothing to do with the
23 scope of the topics which this witness was
24 designated.

25 MR. KAPLAN: I already explained why it 16:07:04

1 does. We don't need to have a dispute on the
2 record. You can notate it should be the personal
3 transcript. We will go through this document and if
4 the next document we hit, you think should be the
5 same way, then you can notate that. I say we 16:07:16
6 disagree and we think it is 30(b)(6) topic
7 testimony.

8 Let's go forward. There's no reason to
9 waste the witness's time with colloquy.

10 (Whereupon, a discussion was held 16:07:25
11 off the record.)

12 MR. KAPLAN: We're certainly going to be
13 going back to topics that I think counsel would
14 agree are clearly within the scope, so you can
15 separate here. But we're going to be going back on, 16:07:44
16 I think agreed, to 30(b)(6) testimony shortly.

17 (Whereupon, a discussion was held
18 off the record.)

19 MR. KAPLAN: Let's take a quick break off
20 the record so I can explain what we're going to do. 16:08:09

21 THE VIDEOGRAPHER: We're going off the
22 record. The time is 4:08.

23 (Whereupon, a recess was held
24 from 4:08 p.m. to 4:09 p.m.)

25 THE VIDEOGRAPHER: We're back on the 16:09:34

1 record. The time is 4:09.

2 MR. KAPLAN: The record is now being
3 designated as 30(b)(1) testimony. Google disagrees
4 and believes this testimony is 30(b)(6) testimony,
5 but we'll continue on and both sides have reserved 16:09:46
6 their objections.

7 BY MR. KAPLAN:

8 Q Could you please turn to -- let's turn to
9 page 45, please. There's a section about two-thirds
10 of the way down this page which says "Turning Off 16:10:20
11 All Zone Players."

12 Do you see that?

13 A Yes.

14 Q It says:

15 "If you want to stop your 16:10:30
16 Sonos Digital Music System from
17 playing music, press Pause All
18 from the Play menu."

19 Do you see that?

20 A Yes. 16:10:38

21 Q Is pause all a group?

22 MS. BRODY: Objection to form.

23 THE WITNESS: Is pause all a group? I
24 don't understand your question.

25 /// 16:11:00

1 BY MR. KAPLAN:

2 Q So there are two sentences under turning
3 off all Zone Players. The first is:

4 "If you want to stop your
5 Sonos Digital Music System from 16:11:07
6 playing music, press Pause All
7 from the Play Menu."

8 And the second sentence says:

9 "All of your Zone Players
10 will remain off until you touch 16:11:16
11 play to restart each zone or zone
12 group."

13 A Yes.

14 Q For the pause all command, is that acting
15 on a group? 16:11:33

16 MS. BRODY: Objection to form.

17 THE WITNESS: It could, if the Zone Players
18 were grouped at the time all zone was pressed, it
19 would apply to a group. But equally, it would apply
20 to any Zone Players that were not paused in the 16:12:04
21 group.

22 BY MR. KAPLAN:

23 Q Was there any separate group relating to
24 pause all?

25 A Sorry. Again, I don't understand your 16:12:26

Page 173

1 question.

2 Q My question is: Was there any group that
3 got acted upon when a user would hit pause all, even
4 on the scenario where the user didn't have any
5 groups created?

16:12:57

6 MS. BRODY: Objection to form.

7 THE WITNESS: Well, I can describe the
8 product how it works.

9 If none of the players were in a group at
10 the time pause all was pressed, then the music would
11 stop for all of those players, even if in the user
12 interface, they're not shown to be part of a group.

16:13:29

13 BY MR. KAPLAN:

14 Q But you don't know whether they're --
15 whether the implementation would use a group to
16 effectuate the pause all command; is that right?

16:13:59

17 MS. BRODY: Objection to form.

18 THE WITNESS: I would not know in the
19 implementation whether that was the case.

20 MR. KAPLAN: I introduced a new exhibit,
21 which is 1080. This document is Bates numbered
22 SONOS-SVG2-00032289.

16:15:15

23 (Whereupon, Google's Exhibit 1080 was
24 marked for identification by the
25 Court Reporter.)

16:15:19

1 BY MR. KAPLAN:

2 Q Do you have it up?

3 A Yes.

4 Q This is a document entitled "Products in

5 our space, with a focus on Graphic Design," by 16:15:47

6 Robert Lambourne, 25th of November 2003.

7 Do you see that?

8 A Yes.

9 Q Do you recognize this document?

10 A I'm just going to scan it. 16:16:03

11 Yes. This document, I will say it looks

12 familiar. It's from a long time ago, but it looks

13 like I wrote this document.

14 Q This is a document that you wrote while you

15 were at Rincon Networks. 16:17:11

16 Is that the predecessor to Sonos?

17 A Yes. The name of the company before we

18 changed it to Sonos.

19 Q What was the purpose of this document?

20 A It looks like I had a look at some products 16:17:29

21 in our space presumably relating to audio products

22 and now it's focused on the graphic design of the

23 products, visual design of the products.

24 Q Is there anything improper about looking at

25 competitor's products? 16:18:00

Page 175

1 MS. BRODY: Objection to form.

2 THE WITNESS: Broadly speaking, looking at
3 products, no. I think looking can be interpreted in
4 a number of ways, but in the sense that I was
5 looking at products here, I don't think so. 16:18:25

6 BY MR. KAPLAN:

7 Q You were looking at these products to
8 determine what companies in the same space were
9 doing and how they matched up against Sonos; is that
10 right? 16:18:39

11 MS. BRODY: Objection to form.

12 THE WITNESS: I think I was looking at how
13 much I like or didn't like the graphic design of
14 these products.

15 BY MR. KAPLAN: 16:19:00

16 Q Were you comparing the graphic design of
17 those products to what Sonos was doing?

18 A I don't think I was comparing them to what
19 Sonos was doing. I was looking from the context of
20 products in this space, how good looking they were. 16:19:24

21 Q If you turn to page 3, at the bottom, the
22 third paragraph from the bottom reads:

23 "Nobody, (yet), is providing
24 the rich full color remote
25 control experience that we are 16:19:42

Page 176

1 offering," smiley face.

2 Do you see that?

3 A I'm sorry. I'm not there yet.

4 Page 3, you said?

5 Q The bottom of page 3, third paragraph from 16:19:51
6 the bottom.

7 A Oh, yes, I see that. Okay.

8 Q And you wrote:

9 "Nobody (yet) is providing
10 the rich full color remote 16:20:05
11 control experience that we're
12 offering," smiley face.

13 Do you see that?

14 A Yes.

15 Q You're comparing what other products in the 16:20:13
16 same space as Sonos were doing from a graphic design
17 perspective; right?

18 MS. BRODY: Objection to form.

19 THE WITNESS: Yes. I was looking at sort
20 of the visual design treatments that were in the 16:20:33
21 space.

22 BY MR. KAPLAN:

23 Q There was nothing improper in looking at a
24 competitor's products to see what they're doing; is
25 that right? 16:20:47

Page 177

1 A I think that's a subjective question. In
2 this context I was looking at the visual treatment
3 of the design and with -- to compare to what our
4 aspiration must have made something much better than
5 what was in the market. 16:21:20

6 Q Do you think you were doing anything
7 improper in looking at what the competitors were
8 doing and comparing Sonos' own designs to that?

9 MS. BRODY: Objection to form.

10 THE WITNESS: Well, I'm not sure I would 16:21:43
11 describe these products as competitors.

12 BY MR. KAPLAN:

13 Q The title of the document is "Products in
14 our space, with a focus on Graphic Design."

15 A Yes. 16:22:09

16 Q When you said "our space," what did you
17 mean by that?

18 A I would say audio products, maybe consumer
19 electronic products. In this case, they had a
20 visual design component. 16:22:34

21 Q Do you think that audio products and maybe
22 consumer electronics products compete with Sonos'
23 products?

24 MS. BRODY: Objection to form.

25 THE WITNESS: I think it would depend how 16:23:14

Page 178

1 precisely you define "compete."

2 BY MR. KAPLAN:

3 Q Did you think that they competed with
4 Sonos?

5 MS. BRODY: Objection to form. 16:23:28

6 THE WITNESS: Are you asking do I or did I
7 at the time?

8 BY MR. KAPLAN:

9 Q I'm going to ask both now.

10 Did you at the time think the products you 16:23:40
11 were evaluating competed with Sonos?

12 MS. BRODY: Objection to form.

13 THE WITNESS: To some degree.

14 BY MR. KAPLAN:

15 Q Do you think that Squeezbox by SlimDevices, 16:24:04
16 which is identified on the first page, competed with
17 Sonos?

18 MS. BRODY: Objection to form.

19 THE WITNESS: To some degree insomuch that
20 it was a streaming device, but I don't think it -- 16:24:26
21 we were looking to create something different.

22 BY MR. KAPLAN:

23 Q Sonos wanted to create something different
24 and presumably better than its -- than the companies
25 listed in this document; is that fair? 16:24:46

Page 179

1 A We wanted to create something unique, and
2 in this case, I was looking at the visual design
3 because I wanted our product to be the best visual
4 design.

5 Q And the way to tell that you were the best 16:25:07
6 was to look at the other products in this space;
7 right?

8 A Yeah. That's one of the ways that you
9 could assess this.

10 Q That is why you created this document; 16:25:25
11 right?

12 MS. BRODY: Objection to form.

13 THE WITNESS: I created this document to
14 show what some of the products in our space were
15 doing from a visual design point of view. 16:25:44

16 BY MR. KAPLAN:

17 Q How is this document used?

18 MS. BRODY: Objection to form.

19 THE WITNESS: I don't recall exactly
20 whether I sent this out and to whom, but I don't 16:26:19
21 think you will glean much of these from a rapid
22 perspective, presumably I wasn't just into myself at
23 that point.

24 BY MR. KAPLAN:

25 Q Who was the audience for this document? 16:26:38

1 A I can't say -- the names that I sent this
2 document or showed this document to, but other
3 people at Sonos I would imagine.

4 Q Would the product management team ever see
5 this document? 16:27:03

6 MS. BRODY: Objection to form.

7 THE WITNESS: It's possible.

8 BY MR. KAPLAN:

9 Q In the first full paragraph on page 1, you
10 wrote: 16:27:33

11 "First, there are a number of
12 companies that provide networked
13 audio in the home, but most
14 solutions center around a 'audio
15 rack product' housing a small 16:27:44
16 eight line LCD screen for UI,
17 combined with a conventional
18 remote control."

19 Do you see that?

20 A I see that, yes. 16:27:55

21 Q What did you mean by "networked audio in
22 the home"?

23 A A product that could work on a network.

24 Q What did you mean by "network"?

25 A Again, not a technical description, but 16:28:28

1 like a home network or a network in an office or a
2 WiFi or Ethernet network, that type of thing.

3 Q Could audio be networked through analog
4 connections to the Zone Player?

5 A Can you repeat the beginning of that 16:29:08
6 question, please?

7 Q Could the audio be networked through analog
8 connections to the speaker?

9 MS. BRODY: Objection to form.

10 THE WITNESS: In the context of the other 16:29:33
11 products being highlighted here, I couldn't say yes
12 or no.

13 BY MR. KAPLAN:

14	Q	You don't know whether Audio Tron,	
15		Squeezebox or Philips for audio networking -- excuse	16:29:46
16		me -- allowed for analog networking?	

17 | A I don't know the answer to that question.

18 Q Were you familiar with Squeezbox devices by
19 SlimDevices?

20	A	I've heard the name, but I don't recall the	16:30:18
21		product.	

22	Q	Did you ever see the Squeezbox device?
----	---	--

23 MS. BRODY: Objection to form.

24 THE WITNESS: You mean in real life or
25 online, or something like that? 16:30:43

1 BY MR. KAPLAN:

2 Q Did you ever see the Slim Box -- strike
3 that.

4 Did you ever see the Squeezbox device in
5 real life? 16:30:52

6 A I'm sitting here today, I couldn't -- I
7 don't recall whether I did see it in real life or
8 not.

9 Q Do you recall whether you saw the Squeezbox
10 device online? 16:31:09

11 A I don't recall it. It's possible.

12 Q On the third page towards the bottom,
13 there's a sentence which we already discussed which
14 read:

15 "Nobody (yet) is providing 16:31:53
16 the rich full color remote
17 control experience we are
18 offering," smiley face.

19 Do you see that?

20 A Yes. 16:32:01

21 Q Why was it important that no one was
22 providing the rich full color remote control
23 experience that Sonos was offering?

24 MS. BRODY: Objection to form.

25 THE WITNESS: Why was it important that 16:32:18

Page 183

1 nobody was offering it?

2 Is that a "yes"?

3 BY MR. KAPLAN:

4 Q That's the question, yes.

5 A Okay. Yeah. 16:32:33

6 Well, it seemed like an opportunity that
7 Sonos would be able to create something special in
8 the market.

9 Q Why was that?

10 A Well, product that nobody had ever seen 16:33:01
11 before.

12 Q You said in the next sentence that Philips
13 was, "Certainly very close with their Pronto and
14 Streamium products."

15 Do you see that? 16:33:25

16 A Yes, I see that.

17 Q Can you describe for me what the Philips
18 Pronto product was like at that time.

19 A To my recollection, the Philips Pronto was
20 a universal remote control. 16:33:53

21 Q It allowed the user to control their home
22 audio system?

23 A As I recall, it was a replacement for
24 existing infrared or IR remote controls that were
25 available at the time. It didn't control home audio 16:34:34

Page 184

1 system in the way we were planning to control the
2 home audio system.

3 Q In the Philips Pronto product, could a user
4 create rooms and control each room separately?

5 MS. BRODY: Objection to form. 16:35:18

6 THE WITNESS: Not to my recollection.

7 BY MR. KAPLAN:

8 Q In the Philips Pronto product, could a user
9 create groups of speakers and control those groups
10 of speakers? 16:35:31

11 MS. BRODY: Objection to form.

12 THE WITNESS: Not to my recollection.

13 BY MR. KAPLAN:

14 Q Could a user create group of speakers in
15 the Phillips Streamium product? 16:35:42

16 A Could control groups you said?

17 Q Yes.

18 A Not to my recollection.

19 MR. KAPLAN: I'm going to introduce a new
20 exhibit, which is 1081. 16:36:16

21 (Whereupon, Google's Exhibit 1081 was
22 marked for identification by the
23 Court Reporter.)

24 THE WITNESS: Okay.

25 /// 16:36:37

1 BY MR. KAPLAN:

2 Q This is an e-mail attachment from you to
3 Mieko Kusano.

4 Do you see that?

5 A Yes. 16:36:49

6 Q Am I pronouncing his or her name correctly?

7 A It's a she. Mieko.

8 Q Mieko.

9 The e-mail is dated July 9th, 2003, and the
10 subject is "scenarios." 16:37:02

11 A Yes.

12 Q Do you recall this e-mail?

13 A Let me read it, please.

14 (Document reviewed by the witness.)

15 THE WITNESS: Would you like me to read the 16:37:50
16 document or just the e-mail part of the beginning?

17 BY MR. KAPLAN:

18 Q I'll be asking you questions about both
19 parts.

20 A Okay. 16:37:58

21 Q I'm not sure if you need to read the whole
22 document, but you can read whatever you need to
23 answer the questions.

24 A Okay. I'll read it. One moment, please.

25 (Document reviewed by the witness.) 16:40:07

1 THE WITNESS: Almost done.

2 (Document reviewed by the witness.)

3 THE WITNESS: Okay. I've scanned it.

4 Thank you.

5 BY MR. KAPLAN: 16:41:05

6 Q Let's turn to the same page, under section
7 B where it says "Zones."

8 A Okay.

9 Q The first bullet says:

10 "Play the same music across 16:41:19
11 all zones and then deal with
12 different volumes in each zone."

13 Do you see that?

14 A Yes.

15 Q That's referring to what will later become 16:41:26
16 known as Party Mode?

17 A That -- yes, that's one way that the user
18 could get the -- get the rooms to all play the same
19 music. They can also group the speakers, which is
20 effectively the command that Party Mode sent to the 16:41:46
21 player.

22 Q The second-to-last bullet under zone says:

23 "Go to the deck play the same
24 music on the deck that is playing
25 in the bedroom." 16:41:58

Page 187

1 Do you see that?

2 A Yes.

3 Q Then the next bullet says:

4 "Add the kitchen to the above

5 music selection." 16:42:04

6 Do you see that?

7 A Yes.

8 Q So the user would be left with a group that

9 has the deck, the bedroom, and the kitchen playing

10 the same music synchronously? 16:42:15

11 MS. BRODY: Objection to form.

12 THE WITNESS: Yeah. The last two bullets

13 would point to the bedroom, the kitchen, and the

14 deck playing the same music.

15 BY MR. KAPLAN: 16:42:44

16 Q This attachment to the document was

17 identifying different scenarios that you would have

18 preferred that the Sonos product covered; correct?

19 MS. BRODY: Objection to form.

20 THE WITNESS: Yeah. I think we described 16:43:08

21 scenarios that we wanted to explore as we created

22 the product. The scenarios we wanted to try and at

23 least explore, and then if it made sense, design a

24 product for.

25 /// 16:43:38

1 BY MR. KAPLAN:

2 Q Were there any other products at that time
3 that allowed a user to play the same music across
4 all zones?

5 MS. BRODY: Objection to form. 16:43:48

6 THE WITNESS: Not that I'm aware of.

7 BY MR. KAPLAN:

8 Q Are you familiar with a company called
9 Crestron?

10 A Crestron, yes. I've heard of Crestron, 16:44:05
11 yes.

12 Q They provide whole home audio systems, are
13 you aware of that?

14 A I'm not aware that's a product they market.
15 I'm aware they make programable remote controls. 16:44:28

16 Q Are you familiar with Crestron's home audio
17 products?

18 MS. BRODY: Objection to form.

19 THE WITNESS: No, I'm not familiar with
20 them. 16:44:42

21 BY MR. KAPLAN:

22 Q Are you familiar with Crestron's audio
23 controllers that are installed in houses?

24 MS. BRODY: Objection to the form.

25 THE WITNESS: To the best of my 16:44:57

1 recollection, no, I'm not familiar with them.

2 BY MR. KAPLAN:

3 Q Are you familiar with Bose home audio
4 products?

5 A I've heard of some Bose audio products. 16:45:11

6 Q Are you familiar with Bose's whole home
7 audio products?

8 A No. Not to the best of my recollection,
9 no.

10 MR. KAPLAN: I'm introducing a new exhibit, 16:46:04
11 which will be 1082.

12 (Whereupon, Google's Exhibit 1082 was
13 marked for identification by the
14 Court Reporter.)

15 MR. KAPLAN: Please let me know when you 16:46:23
16 have it up.

17 THE WITNESS: Yes, I see it. 1082.

18 BY MR. KAPLAN:

19 Q This document is titled "Handheld UI
20 Specification, General Principles, Version 001, Rob 16:46:50
21 Lambourne, last modified: January 2nd, 2002."

22 Do you see that?

23 A I do, yes.

24 Q Is this a document that you authored?

25 A Let me scan it, please. 16:47:05

Page 190

1 (Document reviewed by the witness.)

2 THE WITNESS: It looks to be a document

3 that I authored; although, I'm troubled by the

4 January 2nd, 2002, date on it.

5 BY MR. KAPLAN:

16:48:03

6 Q Is that on the document?

7 A Yes.

8 Q On the bottom of page 1, there are recent

9 additions/amendments. Those look like they're dated

10 January of 2003.

16:48:24

11 Do you see that?

12 A Yes.

13 Q Does that February 2003 date sound more

14 accurate to you than January 2002?

15 MS. BRODY: Objection to form.

16:48:41

16 THE WITNESS: I'm trying to recall when I

17 joined the company. They seem early -- early for me

18 authoring this document, so that's why I'm pausing

19 here.

20 To the best of my recollection, I joined

16:49:44

21 the company in June of 2003. This is why it gives

22 me pause to consider these dates here, unless I have

23 my dates completely wrong, but it does look like a

24 document that I would author.

25 MR. KAPLAN: I would like you to please

16:50:42

Page 191

1 turn to Exhibit 1083.

2 THE WITNESS: Is this a different exhibit?

3 MR. KAPLAN: Yes.

4 (Whereupon, Google's Exhibit 1083 was

5 marked for identification by the 16:50:50

6 Court Reporter.)

7 MR. KAPLAN: Please let me know when you

8 have it up.

9 THE WITNESS: Yes, I have it up.

10 BY MR. KAPLAN: 16:51:20

11 Q This is a documented entitled "PC UI

12 Specification" --

13 A Okay.

14 Q "PC Application, Version 010, Rob

15 Lambourne, last modified: February 26, 2003." 16:51:31

16 Do you see that?

17 A Yes.

18 Q Below that there is some later dates that

19 are June of 2004.

20 A Yes. 16:51:44

21 Q Do you recognize this document?

22 A Let me take a run through it.

23 (Document reviewed by the witness.)

24 MR. KAPLAN: For the record, it's

25 SONOS-SVG2-00033494. 16:51:55

1 THE WITNESS: Yes. This looks like the
2 kind of document I was authoring at the time.

3 BY MR. KAPLAN:

4 Q Do you recall authoring this document?

5 A I don't remember sitting down and typing 16:52:27
6 the words within it, but it's certainly the type of
7 documents that I would have created.

8 Q If you go to section 2.3 on page 8.

9 A Page 8. Okay.

10 Q The second-to-last bullet says: 16:53:09

11 "Zones can be added and
12 renamed in the Settings part of
13 the application."

14 Do you see that?

15 A Yes. 16:53:17

16 Q And then below that there's a red bullet
17 that says, "Relationship to volume (TBD)."

18 A Yes.

19 Q That bullet is in red. Does that indicate
20 anything to you about when it was added to the 16:53:35
21 document?

22 MS. BRODY: Objection to form.

23 THE WITNESS: Well, I would say at the time
24 that I wrote that section, maybe I hadn't worked out
25 the relationship -- the way volume work on the PC as 16:53:52

Page 193

1 it relates to zones. Maybe there are a few ideas I
2 was considering, but I hadn't chosen that I would
3 want to be implemented.

4 MS. BRODY: Counsel, when you reach a
5 breaking point, can we just take a brief break? 16:54:31

6 MR. KAPLAN: Sure. Let's take a break now.

7 THE VIDEOGRAPHER: We're going off the
8 record. The time is 4:54.

9 (Whereupon, a recess was held
10 from 4:54 p.m. to 5:12 p.m.) 17:12:54

11 THE VIDEOGRAPHER: We're going on the
12 record. The time is 5:12.

13 BY MR. KAPLAN:

14 Q Mr. Lambourne, do you know what the
15 earliest known use of your inventions in either the 17:13:05
16 885 or 966 patents was?

17 A The earliest known use?

18 Can you define that, "known use"?

19 Q Do you know if the inventions in the 885
20 patent and 966 patent were commercialized by Sonos? 17:13:26

21 A I do know that we introduced saved groups
22 at a later date, but I don't recall the exact date.

23 Q Do you recall when -- or strike that.

24 Do you recall if Sonos implemented having a
25 standalone speaker be added to a group of speakers 17:14:06

1 and have that standalone speaker continue to
2 playback in standalone mode until the speaker group
3 is invoked?

4 MS. BRODY: Objection to form.

5 THE WITNESS: Just one moment. I have to 17:14:31
6 close a door. Excuse me for like ten seconds.

7 MR. KAPLAN: That's fine.

8 THE WITNESS: All right. Can you repeat
9 the question, please?

10 BY MR. KAPLAN: 17:14:48

11 Q Sure.

12 Do you recall if Sonos implemented having a
13 standalone speaker be added to a group of speakers
14 and have that standalone speaker continue to play
15 back in standalone mode until the speaker group was 17:15:00
16 invoked?

17 MS. BRODY: Objection to form.

18 THE WITNESS: Standalone speaker added to a
19 group, but it would stay standalone until the group
20 was invoked. I think that was implemented with 17:15:23
21 saved groups.

22 BY MR. KAPLAN:

23 Q When were saved groups implemented by
24 Sonos?

25 A Saved groups appeared -- I can't say the 17:16:01

1 exact date, but sometime in the last five years,
2 maybe.

3 Q So is it your understanding that the
4 earliest known use of your inventions by Sonos came
5 within the last five years? 17:16:41

6 MS. BRODY: Objection to form.

7 THE WITNESS: I think so. I can't say with
8 certainty whether that's aspects that are
9 implemented since. Certainly would say groups
10 that's when we had the ability for a user to save 17:17:16
11 the group to be invoked later.

12 BY MR. KAPLAN:

13 Q My question is a little bit different,
14 which is: If you have a standalone speaker playing
15 music and you have a group of speakers not playing 17:17:34
16 music and the standalone speaker is added to the
17 group, does the standalone speaker continue to
18 playback music in the standalone mode at that point?

19 MS. BRODY: Objection to form.

20 THE WITNESS: I'm pausing because when you 17:18:01
21 say added to a group, are you referring to a saved
22 group or just a group of speakers that will play at
23 any one time in a Sonos system?

24 BY MR. KAPLAN:

25 Q So let's say that you have a Zone Player 17:18:30

1 that's in standalone mode and that Zone Player is
2 added to a Zone Scene and that same Zone Player is
3 added to another Zone Scene and that Zone Player had
4 been in standalone mode since the beginning.

5 Does the Zone Player continue to act in 17:18:58
6 standalone mode even after it's been added to two
7 different zone scenes?

8 MS. BRODY: Objection to form.

9 THE WITNESS: If that standalone player was
10 playing music and nobody did anything to stop the 17:19:19
11 music using a control device or some other activity
12 that would make the player not be playing, yes, the
13 player in the scenario you described would continue
14 to play, even though it's being added to a Zone
15 Scene that's saved on the system. 17:19:41

16 BY MR. KAPLAN:

17 Q And even if that Zone Scene was also
18 playing music?

19 MS. BRODY: Objection to form.

20 THE WITNESS: You're describing a situation 17:20:11
21 where a standalone player was playing, somebody
22 creates a Zone Scene to include with that standalone
23 player and it gets saved, and then invokes that Zone
24 Scene subsequently; is that your question?

25 /// 17:20:37

1 BY MR. KAPLAN:

2 Q It's very similar.

3 There is a Zone Player that's in standalone
4 mode. There's Zone Scene 1 and Zone Scene 2. Both
5 Zone Scene 1 and Zone Scene 2 are playing music.
6 Standalone Zone Player is added to both Zone Scene 1
7 and Zone Scene 2.

17:20:47

8 What is the result?

9 MS. BRODY: Objection to form.

10 THE WITNESS: I think in the current

17:21:14

11 system, the zone scene -- two zone scenes can
12 contain the same player. At this moment in time is
13 playing its own music and then the user invokes one
14 of the Zone Scenes, that player will join the group
15 of players that are part of that Zone Scene. And
16 then if the user invokes the second Zone Scene, it
17 will move over to be playing with that other group
18 of speakers.

17:21:38

19 BY MR. KAPLAN:

20 Q What is the behavior of the Zone Player

17:22:01

21 before either of the Zone Scenes are invoked, but
22 after the Zone Player has been added to both of the
23 Zone Scenes?

24 MS. BRODY: Objection to form.

25 THE WITNESS: Well, if I understand your

17:22:19

Page 198

1 question, if a Zone Player that's playing its own
2 music in standalone mode is added to a Zone Scene,
3 but the Zone Scene is saved but not invoked, then
4 the standalone Zone Player will continue to play the
5 music that it has been playing. 17:22:45

6 BY MR. KAPLAN:

7 Q What if the Zone Player that is added to
8 the Zone Scene is playing music and the Zone Scene
9 is also playing music, when the Zone Player is added
10 to the Zone Scene? 17:23:21

11 MS. BRODY: Objection to form.

12 THE WITNESS: So the Zone Scene is playing
13 and the standalone speaker is added to while it's
14 playing?

15 Hmmm. That's an interesting question. I 17:23:56
16 don't recall if we -- I don't recall if I specified
17 that. I would have to go look.

18 BY MR. KAPLAN:

19 Q As far as you know, based on your
20 understanding of the inventions and the 966 and 885 17:24:33
21 patents, when was the earliest known use of those
22 inventions in Sonos' own products?

23 MS. BRODY: Objection; asked and answered.

24 THE WITNESS: Like I said, I believe that
25 was the save groups feature that was somewhere in 17:24:57

Page 199

1 the last approximately five years.

2 BY MR. KAPLAN:

3 Q Is it your understanding that the
4 inventions in the 885 patents and 966 patents are
5 limited to the save group feature?

17:25:20

6 MS. BRODY: Objection to form, calls for
7 expert testimony, and legal conclusion.

8 THE WITNESS: I don't know if the saved
9 groups used all or parts of what's described in the
10 invention.

17:25:45

11 MR. KAPLAN: Let's take a look at
12 Exhibit 1100.

13 (Whereupon, Google's Exhibit 1100
14 was marked for identification by the
15 Court Reporter.)

17:26:04

16 BY MR. KAPLAN:

17 Q Have you seen this document before?

18 A I have it up. Let me see.

19 (Document reviewed by the witness.)

20 THE WITNESS: I don't recollect seeing it,
21 but it's possible.

17:27:03

22 BY MR. KAPLAN:

23 Q Mr. Lambourne, do you have an understanding
24 of whether or not any Google products use your
25 inventions as claimed in the 885 or 966 patents?

17:27:17

Page 200

1 MS. BRODY: Objection to form.

2 THE WITNESS: Can you repeat the question,
3 please?

4 BY MR. KAPLAN:

5 Q Do you have an understanding of whether any 17:27:30
6 Google products use the inventions as claimed in the
7 885 or 966 patents?

8 A No.

9 MS. BRODY: Same objection.

10 THE WITNESS: No. 17:27:46

11 BY MR. KAPLAN:

12 Q Have you tested any Google audio products?

13 MS. BRODY: Objection to form.

14 THE WITNESS: You mean as speaker products?

15 BY MR. KAPLAN: 17:28:10

16 Q Yes.

17 A No, not to my recollection.

18 Q Have you tested any Chromecast products?

19 A Not to my recollection.

20 Q Are you aware of any teardowns by Sonos of 17:28:24
21 any Google audio related products?

22 MS. BRODY: Objection to form.

23 THE WITNESS: Not to my recollection, no.

24 BY MR. KAPLAN:

25 Q With respect to Exhibit 1100, can you turn 17:28:57

Page 201

1 to page 2 of that document. I'll introduce it
2 quickly.

3 This is an interrogatory response that
4 Sonos served on Google with respect to its
5 conception claims. 17:29:15

6 If you turn to page 2, that's the beginning
7 of the chart related to the 885 patent conception
8 claims. This exhibit as been excerpted because it's
9 very, very long, so it starts on page 137. There
10 are about 136 prior pages that weren't relevant. 17:29:38

11 A Okay.

12 Q With respect to claim elements 1.0 through
13 1.4, in part, Sonos wrote:

14 "In this respect, by
15 December 21st, 2005, Sonos began 17:30:04
16 actively working towards a system
17 comprising a network-enabled
18 computing device and one or more
19 of Sonos's network-enabled audio
20 players at the time (e.g., at 17:30:16
21 least the ZP 100), including a
22 Sonos network-enabled audio
23 player that meets each asserted
24 claim of the '885 Patent (the
25 claimed 'first zone player')." 17:30:29

Page 202

1 And it continues on from there.

2 Do you have an understanding of whether or
3 not claimed elements 1.0 through 1.4 were conceived
4 as of December 21st, 2005?

5 MS. BRODY: I'll just object to the extent 17:30:47
6 we don't have a full document at this deposition and
7 can't evaluate for ourselves whether the first 136
8 pages are relevant.

9 Mr. Lambourne, if you can answer the
10 question, you may go ahead. 17:30:58

11 THE WITNESS: Well, I don't claim to work
12 in a very specific leading way, so are you asking me
13 to interpret the claims?

14 BY MR. KAPLAN:

15 Q I'm asking whether you have any information 17:31:14
16 regarding the conception of claimed element 1.0
17 through 1.14 here, other than what's written on this
18 page?

19 A Let me read it.

20 (Document reviewed by the witness.) 17:31:26

21 THE WITNESS: Your question again, please?

22 BY MR. KAPLAN:

23 Q My question was: Did you have an
24 understanding of whether or not claimed elements 1.0
25 through 1.4 were conceived as of December 21st, 17:33:29

Page 203

1 2005?

2 A I mean, the claims are written a very
3 specific way. I can't say as to the product we made
4 we were working on a networked audio system in
5 December 2005, yes. 17:33:56

6 Q When did you complete the product that
7 embodied your invention?

8 MS. BRODY: Objection to form.

9 MR. KAPLAN: Strike that. I will withdraw
10 it. 17:34:35

11 BY MR. KAPLAN:

12 Q What did you do to reduce -- strike that.

13 What did Sonos do to reduce its invention
14 to practice between December 21st, 2005 and
15 September 12th, 2006? 17:34:51

16 MS. BRODY: Objection to form.

17 THE WITNESS: I believe we continued to
18 work on the ideas we talked about, Zone Scenes being
19 on zone groups, those scenes being used as part of
20 an alarm clock. I believe that was in that 17:35:24
21 timeframe. And then I don't know exactly what we
22 found in 2006, but we filed a -- I don't know if it
23 was a patent or patent document in 2006.

24 BY MR. KAPLAN:

25 Q Can you remember what Sonos did to reduce 17:35:42

1 its invention to practice between December 21st,
2 2005 and September 12th, 2006, beyond the alarm
3 clock and Zone Scenes that you just mentioned?

4 MS. BRODY: Objection to form.

5 THE WITNESS: Yeah. I don't think I can 17:36:11
6 give you a super accurate answer. It says we filed
7 a provisional 407 on the 12th of December 2006.

8 Is that what you're asking?

9 BY MR. KAPLAN:

10 Q No. 17:36:32

11 I'm trying to ask sort of what work went on
12 between December 21st, 2005 and September 12th,
13 2006, that shows that Sonos was attempting to reduce
14 the invention to practice.

15 A I believe further refinement of the design 17:36:49
16 ideas that were described.

17 Q What details can you remember about that?

18 MS. BRODY: Mr. Kaplan, I believe there
19 were documents referred to in Sonos' interrogatory
20 responses. If you have those available, that might 17:37:18
21 help refresh Mr. Lambourne's memory on that subject
22 matter.

23 MR. KAPLAN: Well, we already looked at the
24 document cited here. That's the Sonos UI
25 specification. 17:37:31

1 MS. BRODY: Well, again, I believe there's
2 documents cited in the first 136 pages of this
3 original document that refer to reduction to
4 practice. If you have those documents, they may
5 refresh Mr. Lambourne's memory versus -- he can't 17:37:46
6 just -- this isn't a memory test, unfortunately.

7 MR. KAPLAN: Well, I'm going to ask the
8 question because Mr. Lambourne has been designated
9 on this topic.

10 BY MR. KAPLAN: 17:38:05

11 Q Mr. Lambourne, do you recall -- let's turn
12 down to 1.6 of the claim. Begins on page --
13 numbered page 142. It's page 7 of the PDF.

14 A One minute.

15 Okay. 1.6. 17:38:23

16 Q Are you there?

17 A Yes.

18 Q Here it reads:

19 "Prior to September 12th,
20 2006, Sonos conceived of a first 17:38:37
21 Sonos audio player that comprises
22 program instructions stored on
23 the first Sonos audio players
24 non-transitory computer-readable
25 medium that, when executed by the 17:38:53

Page 206

1 first Sonos audio player's one or
2 more processors, cause the first
3 Sonos audio player to receive,
4 from a network device over a data
5 network, a first indication that 17:39:06
6 the first Sonos audio player has
7 been added to a first zone scene
8 comprising a first predefined
9 grouping of Sonos audio players,
10 including at least the first 17:39:18
11 Sonos audio player and a second
12 Sonos audio player that are to be
13 configured for synchronous
14 playback of media when the first
15 Zone Scene is invoked." 17:39:30
16 It's a mouthful.
17 Do you see that paragraph, though?
18 A Yes, I see the paragraph.
19 Q In this section, do you have any additional
20 information you can offer regarding the conception 17:39:42
21 of element 1.6 that's not written here?
22 MS. BRODY: Objection to form.
23 THE WITNESS: Not that -- a single
24 specification I wrote and the descriptions of the
25 features, beyond that, I don't recall. 17:40:03

Page 207

1 BY MR. KAPLAN:

2 Q Would your answer be the same for the rest
3 of the elements 1.7 starting on page 13 and then
4 1.8, 1.9, 1.10?

5 MS. BRODY: Let's make sure the witness has 17:40:26
6 an opportunity to review those, Mr. Kaplan.

7 THE WITNESS: Okay.

8 (Document reviewed by the witness.)

9 MS. BRODY: I'm sorry. Was it okay if the
10 witness reviews those? 17:40:47

11 I didn't hear you, Mr. Kaplan, if you
12 responded.

13 MR. KAPLAN: Did you ask me if it's okay
14 the witness looks at the document? The answer is
15 yes. 17:40:58

16 MS. BRODY: You asked about the elements.
17 I'm making sure he has an opportunity to review the
18 document in that regard.

19 MR. KAPLAN: Yeah. I'm not taking it away
20 from him. 17:41:05

21 Please go ahead.

22 MS. BRODY: Mr. Nichols, while the witness
23 is reviewing the document, how much time is on the
24 record?

25 THE VIDEOGRAPHER: We're at six hours and 17:41:27

1 58 minutes.

2 MS. BRODY: Thank you.

3 THE WITNESS: Do we go to extra time on
4 these things, or...

5 I think my answer is the same, Mr. Kaplan. 17:41:43

6 I reviewed the specification that I wrote,
7 many of these illustrations from those
8 specifications described in these points, so my
9 answer would be the same.

10 BY MR. KAPLAN: 17:42:10

11 Q Do you use any Google products at home?

12 A I have some Google Nest products that I
13 brought before Google bought Nest.

14 Q Are those Nest home audio products or
15 thermostat products? 17:42:31

16 A I have to look up there. There's one here.
17 I have thermostat, a smoke alarm, and a camera, but
18 no audio products.

19 (Whereupon, Google's Exhibit 1070 and.
20 Exhibit 1073 were marked for 17:42:41
21 identification by the Court Reporter.)

22 MR. KAPLAN: All right. Mr. Lambourne,
23 thank you very much for your time today. I
24 appreciate it.

25 MS. BRODY: I have no questions. 17:42:55

1 We will designate the transcript under the
2 protective order as highly confidential - attorneys'
3 eyes only and we will reserve signature, please.

4 THE VIDEOGRAPHER: Thank you.

5 We're off the record at 5:43 p.m. and this 17:43:08
6 concludes today's testimony given by Robert
7 Lambourne and Robert Lambourne as a 30(b)(6) witness
8 for Sonos, Inc. The total number of media units was
9 one and will be retained by Veritext Legal
10 Solutions. 17:43:24

11 (Whereupon the deposition proceedings
12 were concluded at 5:43 p.m.)

13 -o0o-

14

15

16

17

18

19

20

21

22

23

24

25

1 STATE OF CALIFORNIA)

) ss.

2 COUNTY OF LOS ANGELES)
3
4

5 I, ROBERT ANDREW LAMBOURNE, declare
6 under penalty of perjury that the foregoing
7 testimony is true and correct to the best of my
8 knowledge and belief.
9

10 Dated this ____ day of _____, 2022.
11
12

13 _____
14 (ROBERT ANDREW LAMBOURNE)
15
16
17
18
19
20
21
22
23
24
25

1 STATE OF CALIFORNIA)
2 COUNTY OF LOS ANGELES) ss.
3

4 I, D'Anne Moungey, C.S.R. No. 7872 in and
5 for the State of California, do hereby certify:

6 That prior to being examined, the witness
7 named in the foregoing deposition was by me duly
8 sworn to testify to the truth, the whole truth, and
9 nothing but the truth;

10 That said deposition was taken down by me
11 in shorthand at the time and place therein named and
12 thereafter reduced to typewriting under my
13 direction, and the same is a true, correct, and
14 complete transcript of said proceedings;

15 That if the foregoing pertains to the
16 original transcript of a deposition in a Federal
17 Case, before completion of the proceedings, review
18 of the transcript { } was {X} was not required.

19 I further certify that I am not interested
20 in the event of the action.

21 Witness my hand this 8th day of June,
22 2022.

23 

24 Certified Shorthand Reporter
25 For the State of California

1 MARC KAPLAN, ESQ.

2 marckaplan@quinnemanuel.com

3 June 8, 2022

4 RE: GOOGLE LLC VS. SONOS, INC.

5 JUNE 6, 2022, ROBERT ANDREW LAMBOURNE, JOB NO. 5267960

6 The above-referenced transcript has been

7 completed by Veritext Legal Solutions and

8 review of the transcript is being handled as follows:

9 ___ Per CA State Code (CCP 2025.520 (a)-(e)) - Contact Veritext
10 to schedule a time to review the original transcript at
11 a Veritext office.

12 ___ Per CA State Code (CCP 2025.520 (a)-(e)) - Locked .PDF
13 Transcript - The witness should review the transcript and
14 make any necessary corrections on the errata pages included
15 below, notating the page and line number of the corrections.
16 The witness should then sign and date the errata and penalty
17 of perjury pages and return the completed pages to all
18 appearing counsel within the period of time determined at
19 the deposition or provided by the Code of Civil Procedure.

20 ___ Waiving the CA Code of Civil Procedure per Stipulation of
21 Counsel - Original transcript to be released for signature
22 as determined at the deposition.

23 ___ Signature Waived - Reading & Signature was waived at the
24 time of the deposition.

25

Page 213

1 ___ Federal R&S Requested (FRCP 30(e)(1)(B)) - Locked .PDF
2 Transcript - The witness should review the transcript and
3 make any necessary corrections on the errata pages included
4 below, notating the page and line number of the corrections.
5 The witness should then sign and date the errata and penalty
6 of perjury pages and return the completed pages to all
7 appearing counsel within the period of time determined at
8 the deposition or provided by the Federal Rules.
9 _X_Federal R&S Not Requested - Reading & Signature was not
10 requested before the completion of the deposition.

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

1 RE: GOOGLE LLC VS. SONOS, INC.

2 ROBERT ANDREW LAMBOURNE, JOB NO. 5267960

3 E R R A T A S H E E T

4 PAGE_____ LINE_____ CHANGE_____

5 _____

6 REASON_____

7 PAGE_____ LINE_____ CHANGE_____

8 _____

9 REASON_____

10 PAGE_____ LINE_____ CHANGE_____

11 _____

12 REASON_____

13 PAGE_____ LINE_____ CHANGE_____

14 _____

15 REASON_____

16 PAGE_____ LINE_____ CHANGE_____

17 _____

18 REASON_____

19 PAGE_____ LINE_____ CHANGE_____

20 _____

21 REASON_____

22 _____

23 _____

24 WITNESS _____ Date _____

25 _____

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[& - 2005]

&	85:21,22 86:2,7,7 86:11,12,16,17,18 87:3,7,25 89:22 90:10,15 101:11 114:23 154:1,3,6,7 155:6 157:10,12 158:2 202:21	1098 4:15 18:4,8 18:17,19 19:22,24 20:4,6 21:24 61:21,23 66:1,10 68:20 69:18,21,24 72:10 74:23 95:2 95:4,5	2
& 2:10,16 6:24 7:1 213:23 214:9	100s 86:17,20 88:2 88:7 114:13,22 115:6,6,7 155:6 163:22 165:10,11	1099 4:17 18:5,8 19:5 75:19 10:12 39:5,7 10:22 39:7,9	2 3:24 12:3,7,17 13:20 14:2,5 15:23 16:19,22 17:1,11,14 28:10 29:6 62:11 72:10 73:2,3,13 82:16,18 82:18 95:4 154:23 164:4 169:22 198:4,5,7 202:1,6
0			
001 190:20 010 192:14 014 100:4,22 04 164:12 05 38:23 164:12 0504 164:6,8 06754 1:7 6:14 07559 1:11 6:15	104 150:22 1069 3:10 11:14,15 11:22 1070 3:12 12:23 209:19 1071 3:14 17:16,19 113:3 1072 3:15 17:17,20 113:3 1073 3:16 209:20 1074 3:17 99:13,14 99:19 1075 3:18 123:25 124:1,9 1076 3:20 144:19 144:21 145:1,3 1077 3:22 153:6,7 153:8 1078 3:23 153:6,9 1080 4:5 174:21,23 1081 4:7 185:20,21 1082 4:9 190:11,12 190:17 1083 4:11 192:1,4 1097 4:13 21:21,25 22:1,5 23:13 27:21,25 31:2,9 39:16 41:18 43:7 44:18 45:9 47:25	11 3:10 80:16 1100 4:19 200:12 200:13 201:25 11:40 74:13,15 11:53 74:15,17 11th 80:5 12 155:9,12 124 3:18 127 5:7 30:25 12:48 98:23,25 12th 204:15 205:2 205:7,12 206:19 13 157:7 208:3 135 5:8 136 202:10 203:7 206:2 137 202:9 142 206:13 144 3:20 153 3:22,23 17 3:14,15 174 4:5 18 4:15,17 158:5 185 4:7 18515 212:23 190 4:9 191 2:17 192 4:11 1:33 98:25 99:2	2-7 154:14,22 2.3 193:8 200 4:19 2002 190:21 191:4 191:14 2003 175:6 186:9 191:10,13,21 192:15 2004 88:6 89:3,22 90:2,6,8,11,15 91:10 92:22,23 93:9 94:18 95:9 95:21 96:17,25 97:3,6 98:10 101:11 103:25 114:12,21 115:5,9 115:24 117:22,25 118:19 122:8 123:2,6,13,19 141:18 142:2,17 145:11 192:19 2005 3:22,24 20:12 20:15,16,24,25 21:8,11 22:20,23 23:1 31:3,6 33:23 34:2,10 45:10 51:22 75:25 76:18 76:20 80:5,16 94:24 97:3,6 142:4,7 153:14 163:21 164:7,8
1			
1 1:20 3:22 6:7 12:3,7,17 13:15 14:5,8,21,24 15:4 15:21 17:7,11,14 28:9 29:5 70:22 71:8,20 80:13 100:15 102:19 125:10 169:21 172:3 181:9 191:8 198:4,5,6 214:1 1-312-754-9602 2:12 1.0 202:12 203:3 203:16,24 1.10 208:4 1.14 203:17 1.4 202:13 203:3 203:25 1.6 206:12 207:21 1.6. 206:15 1.7 208:3 1.8 208:4 1.9 208:4 10,469,966 3:15 10,848,885 3:14 100 67:21 84:18,21 85:5,6,7,11,12,17			

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[2005 - accurate]

202:15 203:4 204:1,5,14 205:2 205:12 2006 141:18 142:17 204:15,22 204:23 205:2,7,13 206:20 2022 1:21 2:3 3:16 6:2,6 211:10 212:22 213:3,5 2025.520 213:9,12 20th 20:15 210 3:12,16 21st 20:16 31:3,6 33:23 34:2,10 45:10 202:15 203:4,25 204:14 205:1,12 22 4:13 158:10,12 24 31:1,2,8 39:15 159:4 25 159:22 2533852 124:10 25th 175:6 26 192:15 27 162:21,23 2700 2:17 28 165:2 29 45:5,9 161:4,6 2:00 112:1,3 2:03 112:3,5 2nd 22:20,23 23:1 190:21 191:4	30 1:20,20 3:10,13 6:9 100:9 109:13 161:23 166:1 168:9,12 169:22 170:14 171:6,16 172:3,4 210:7 214:1 31 169:7 312.705.7400 2:18 32 138:18 32293 4:6 32459 3:21 32491 4:10 32578 4:8 33526 4:12 3722 7:21 3:18 80:16 3:20 1:7 6:14 3:21 1:11 6:15 3:25 152:24 153:2 3:36 153:2,4 3rd 22:22	5:00 40:8 5:12 194:10,12 5:43 210:5,12 5w 2:11 6 6 1:20,21 2:3 3:10 3:13 5:7 6:2,6,9 100:9 109:13 127:2,5 128:1,9 131:20 155:2 169:22 170:14 171:6,16 172:4 210:7 213:5 60 102:22 60606 2:18 60661 2:12 614 8:5 65 105:9 656 2:11 67 105:9 7 7 3:5 12:1 206:13 7,571,014 3:17 99:20 7-9-03 4:7 751 4:14 7872 1:25 2:4 212:4 8 8 5:8 135:20,21,24 138:6 193:8,9 213:3 885 9:3 13:16,24 17:16 113:2,11,19 120:12 194:16,19 199:20 200:4,25 201:7 202:7,24 89 4:18 8th 76:18 212:21	9 9 106:17 92 145:21 146:2,3 146:5,18 93101 8:6 93110 7:22 95 148:24 96 149:24 150:1 966 9:2 13:16,24 17:17 49:22 113:2 113:12,20 120:12 194:16,20 199:20 200:4,25 201:7 985 49:21 99 3:17 9:03 6:2,6 9:04 2:3 9th 186:9 a a.m. 2:3 6:2,6 39:7 39:7 74:15,15 ability 11:5 34:18 59:14 83:10 87:15 89:17 101:10 138:23 140:5,9,23 196:10 able 39:2 42:15 50:19 64:19 74:10 106:3 110:6 113:22,24 121:9 130:15,25 140:3 140:20 157:3 163:8,12,21,25 184:7 abstract 100:21 101:2 124:16,20 124:24 125:2 access 38:12 accurate 20:19,20 63:1 113:6 191:14
3 3 3:16 23:13 27:21 27:25 73:15,23 74:6 134:8 154:11 154:17,19,20,21 159:7 176:21 177:4,5	4 4 41:18 43:7 44:17 69:18,22,24,24 70:2 72:9 140:13 4-11-05 4:17 407 205:7 42 47:25 48:3 45 125:7 172:9 4:08 171:22,24 4:09 171:24 172:1 4:54 194:8,10	5 50 102:19 5267960 1:24 213:5 215:2 53 106:18 58 4:16 209:1	

[accurate - aspect]

205:6 accurately 8:11 achieve 64:10,23 act 197:5 acted 174:3 acting 173:14 action 212:20 actions 9:7 83:16 activate 140:20 active 142:10,20 actively 202:16 activities 23:15 activity 197:11 actual 16:3 add 66:20 83:10 83:12 117:3,10,10 128:16 140:21 158:7 168:13 188:4 added 38:9 47:7 47:14 50:24 51:12 51:14,25 60:21 66:23 67:9 88:7,8 108:5,19 115:15 116:24 119:8 168:4,5,22 193:11 193:20 194:25 195:13,18 196:16 196:21 197:2,3,6 197:14 198:6,22 199:2,7,9,13 207:7 adding 117:3 131:4 154:15,25 addition 67:3 105:15 additional 12:20 105:14 207:19 additions 191:9 address 7:19 8:2,5 80:19 131:3 132:22 141:9	addressed 142:25 addressing 44:10 adds 28:11 advanced 72:21 advantage 139:11 advantageous 64:12 65:19 advantages 14:10 100:14 109:13 125:9 169:24 affect 144:4 affiliations 6:22 ago 145:25 170:16 170:20 175:12 agree 112:10,17 113:8,14,22,24 133:25 171:14 agreed 171:16 ahead 13:12 64:21 203:10 208:21 alarm 39:18,22 40:1,3,3,16,18,21 40:23 41:3,9,10,11 41:14,16 204:20 205:2 209:17 alleged 16:4,10,14 allow 58:18,19 64:5,14,21,24 65:14 80:24 81:16 81:20 92:23 101:11 103:16 109:14 120:7 121:7 132:18 allowed 98:11 120:5 148:15 152:2 170:3 182:16 184:21 189:3 allowing 65:17 107:8,18 131:10	allows 62:17 101:17 amendments 191:9 american 22:21 amount 65:12 133:22 amplifier 42:15 85:2 amy 2:10 6:25 170:7 analog 122:9,16 157:13 182:3,7,16 andrew 1:19 2:1 3:4 7:6,18 15:11 211:5,14 213:5 215:2 andy 75:23 76:2 76:17 80:4,15 angeles 211:2 212:2 annotation 30:22 48:7 answer 10:3,9 59:5 89:1 109:18 182:17 186:23 203:9 205:6 208:2 208:14 209:5,9 answered 156:22 199:23 anymore 118:9 anyway 170:9 apart 45:24 122:1 131:17 apologize 131:24 appealing 43:23 appear 28:3,16,25 29:11,14,17 46:16 46:22 152:2 167:5 appearances 2:7 6:21	appeared 18:16 67:20 195:25 appearing 30:6 104:15 213:18 214:7 appears 66:2 101:14 application 33:17 192:14 193:13 applications 14:17 apply 27:4,6 173:19,19 appreciate 209:24 appreciated 125:19,23 appropriate 40:16 approximately 200:1 april 3:22,24 75:25 76:18,20 80:5,16 153:14 163:21 164:7,8,12 areas 46:6 148:16 arrange 11:18 62:17 art 100:14 169:20 asked 145:22 156:21 169:25 199:23 208:16 asking 21:2,3 36:6 37:8,11 55:18 86:15 112:8 124:18 125:13 129:14,20 130:23 132:11 141:6 145:20 151:24 156:15 179:6 186:18 203:12,15 205:8 aspect 34:25 83:15
---	---	---	---

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[aspects - better]

aspects 111:12 122:16 196:8 aspiration 178:4 asserted 14:15,18 16:8,15 202:23 assess 180:9 assist 119:21 associated 129:2 assume 74:2 assuming 128:5 152:16 assurance 127:17 attached 5:3 118:20 attachment 186:2 188:16 attempted 16:7 attempting 205:13 attorneys 15:1,20 16:23 38:16,19 210:2 attribute 66:6 88:17 attributes 41:4 61:9,13,14 75:13 89:19 133:10,12 133:15,23,25 audience 180:25 audio 3:20 23:24 47:22 86:20,23 97:3,11,14,22 98:7 101:18 102:25 103:2,6 105:10 107:24 111:18 122:16 124:23 125:3,21 145:4 152:12 157:13 175:21 178:18,21 181:13,14,21 182:3,7,14,15 184:22,25 185:2	189:12,16,22 190:3,5,7 201:12 201:21 202:19,22 204:4 206:21,23 207:1,3,6,9,11,12 209:14,18 author 104:3 191:24 authored 62:4 190:24 191:3 authoring 191:18 193:2,4 automated 23:15 36:22 av 147:15 available 25:19 62:21 66:3 121:22 162:18 184:25 205:20 avoid 126:6 aware 97:1,5,10 189:6,13,14,15 201:20	118:14 119:1,6,13 119:15 121:24 122:2,7 169:22 170:14 171:6,16 172:3,4 187:7 210:7 214:1 b2 3:14 back 19:22 21:21 21:24 22:21 26:1 26:15 30:20 35:14 37:24 39:8,11,15 48:4 57:17 74:16 74:19,23 99:1,4 112:4 122:8 153:3 157:9,12 162:21 164:4 171:13,15 171:25 195:15 barbara 2:2 6:1 7:22 8:6 based 22:13 28:3 40:11 106:7 108:15,20 152:7 163:19 199:19 basically 40:10 55:24 bates 3:20 4:5,7,9 4:11,13,15,17 18:19 19:5 22:5 174:21 bathroom 103:3 104:9,20 110:18 beach 97:20 bedroom 24:2,3 27:15 28:9 40:7 43:2,12 44:20,24 45:2,3 103:3 104:9,20 110:16 110:18,19 159:2 187:25 188:9,13 began 21:14 202:15	beginning 182:5 186:16 197:4 202:6 begins 125:15 206:12 behalf 2:1 7:1 13:1 behavior 50:1,6,13 50:17,23 51:13,23 52:19,23 56:14 95:8 118:16,18 198:20 behaviors 51:17 52:18 53:16 60:20 72:7 89:12,15 belief 211:8 believe 8:17 9:4,5 15:10 21:10 23:8 28:15 29:25 30:2 33:2,11,25 35:4 38:16 45:10 52:4 55:21 56:17 57:6 57:8 63:1 66:23 72:5 73:14 74:7 74:21 81:6 82:5 86:23 94:24 95:18 97:24 98:7,19 108:24 114:8,9 123:16 133:22 142:7 145:8 148:2 160:17 168:20 199:24 204:17,20 205:15,18 206:1 believes 172:4 beneath 61:24 benefits 14:13 best 18:12 72:6 180:3,5 189:25 190:8 191:20 211:7 better 40:20 59:24 67:8 178:4 179:24
	b b 1:20,20 3:8,10 3:13 4:3 5:5 6:9 55:1,1,7,14 56:6,7 56:13,18,20 57:3 57:18,20,25 58:4,4 60:7,12,19,22 77:20,22,23 78:3,7 78:21 79:8,11,13 79:14,16,19 93:8 93:12,16,20 94:1,2 94:4,5,6,10,13,14 95:15,22 96:5,13 96:13,18,18 100:9 109:13 115:25 116:6,8,14,24 117:2,9,10,13,17 118:1,2,6,8,9,12		

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[beyond - c]

beyond 36:21 205:2 207:25 bit 36:19 54:20,22 107:13 119:23 147:10 158:18 196:13 black 149:1 150:24 blending 91:23 blown 82:21 blue 155:14,17 168:11 blurry 158:18 body 163:3 bose 190:3,5 bose's 190:6 bottom 19:13 30:24 43:7 44:17 44:19 59:9 80:4 124:17 134:8 168:11 176:21,22 177:5,6 183:12 191:8 bought 209:13 box 32:11,17 33:1 43:8 44:17 48:14 149:1 150:24 162:1,5 165:5 166:4,9 167:11,22 168:8,9,11 169:8 183:2 boxes 28:14 break 10:10 39:2 45:24 74:10,21 78:18 98:21 99:10 112:7 114:20 152:21 171:19 194:5,6 breakdown 64:10 64:20	breaking 194:5 breaks 10:6 brief 194:5 brings 70:16 broad 61:16 141:14 170:16 broadcast 103:5 broaden 25:16 47:5 broadly 36:20 49:1 61:8,12 92:1 133:9,13 176:2 brody 2:10 6:25 6:25 12:24 13:6 13:10,13 14:5,25 21:15 25:12,21 26:10 27:8 31:22 33:24 34:15,21 35:3,11,22 36:4,10 36:24 37:6,14 38:25 39:24 40:22 42:6,12 44:3,11 46:3,14,23 47:9,16 49:7,23 50:15 51:1,15 52:2,15 53:2,13,24 54:9 55:10 56:15 57:5 57:10 58:1,13 60:9,23 63:2,10 65:5,21 66:5,22 67:16 68:9 69:9 72:3 74:8 76:9 78:10 81:9 82:4 82:12 83:19 84:3 84:11,22 85:8,19 86:4,8,13,21 87:4 87:13 88:3,9,24 89:5 90:3,16,24 91:13,21,25 92:12 93:2,13,21 94:7,16 95:16,24 96:8,19	97:8 98:6,13 100:6,16 101:13 102:14 103:15 104:2,17 105:5,18 106:10 107:10,20 108:10,17 109:5 109:10 110:13,25 111:11 112:13,19 113:10,17 114:3 114:16,24 115:8 115:17 116:4,21 117:5,20,24 118:22 119:9,19 120:10 121:2,10 122:10,22 123:3 123:14,20 124:25 125:8 126:15,25 127:20 128:3 129:12,19 130:1 130:22 131:5,14 132:10,23 133:8 134:1,17 135:3,14 136:6 137:7,17 139:8,18 140:7 141:4,12,19 142:6 142:12,18 143:2,9 143:17,24 144:5 145:12 146:4,7 147:8 148:18 149:10,18 150:16 151:11,20 152:5 152:14 154:9 156:2,9,15,21 157:14,22 158:16 159:18 160:11,20 162:14 163:10,23 164:10,17,23 165:14,23 166:10 166:20 167:2,12 167:24 168:24 169:16 170:6,15	172:22 173:16 174:6,17 176:1,11 177:18 178:9,24 179:5,12,18 180:12,18 181:6 182:9,23 183:24 185:5,11 188:11 188:19 189:5,18 189:24 191:15 193:22 194:4 195:4,17 196:6,19 197:8,19 198:9,24 199:11,23 200:6 201:1,9,13,22 203:5 204:8,16 205:4,18 206:1 207:22 208:5,9,16 208:22 209:2,25 broke 121:25 broken 84:14 131:17 brought 118:8 209:13 bug 142:25 bullet 28:15 187:9 187:22 188:3 193:10,16,19 bullets 188:12 business 136:17 button 27:3,5,11 66:23 67:9,18,19 67:23 155:14,20 160:9 162:13 163:9 buttons 85:12 160:5
c			
c 1:14 7:22 8:5 55:1,2,7,14 56:6,8 56:13,18,20 57:3 57:18,20,25 58:4,4			

[c - command]

60:7,12,19,22 77:20,22,23 78:3,8 78:21 79:8,12,13 79:14,16,19 93:8 93:12,17,20 94:1,2 94:4,5,6,10,13,15 95:15,23 96:6,13 96:15,18 116:1,8 116:15,24 117:3,3 117:10,11,14,17 118:1,2,6,9,13,14 119:2,7 c.s.r. 212:4 ca 213:9,12,20 california 1:2 2:2 6:1,13 7:22 8:6 211:1 212:1,5,24 call 20:9 92:2,6 97:12 137:22 called 22:15 23:2 27:15,16,16 28:5 33:14 42:18 43:16 47:19 54:25 62:1 67:21 85:21 91:6 91:6,11,14 94:2 97:16,19 118:14 119:14 131:20 134:11,16 136:22 139:15,16,23 148:21,21 166:8 189:8 calls 78:21 108:11 126:16 170:16 200:6 camera 209:17 canadian 3:18 124:9 capabilities 98:5 capability 51:18 132:12	carry 92:17 case 6:13,14 9:2 25:10 26:7 31:24 42:7,13 44:1,9 45:1,4 55:6,22 67:23 68:3 73:4 73:16,24 79:17 95:11 104:12 121:14 122:4,6 133:2 148:20 150:18 174:19 178:19 180:2 212:17 cases 24:1 cause 27:3,6 161:13 207:2 caused 93:17 cc'd 15:10 ccp 213:9,12 cd 154:2 cedar 7:21 center 181:14 certain 40:11 64:11 65:12 81:24 82:5,9,19,20 certainly 171:12 184:13 193:6 196:9 certainty 21:18 52:17 58:8 69:12 107:23 139:22 142:8 196:8 certified 212:24 certify 212:5,19 cessation 16:6 chain 75:22 76:14 change 40:8 56:4 92:16 150:19 215:4,7,10,13,16 215:19	changed 52:25 120:22 121:4 168:23 169:6 175:18 changes 53:1 changing 150:6 channel 47:21 chapala 8:5 chapter 154:22 chart 202:7 chat 11:5 check 146:25 chicago 2:12,18 chips 122:14 choice 53:18 72:16 74:5 choose 72:11 73:5 74:4 choosing 40:5 chosen 194:2 chromecast 201:18 circle 32:11 33:1 circular 31:11 circumstances 15:25 cited 205:24 206:2 civ 3:13 civil 213:19,20 claim 202:12,24 203:11 206:12 claimed 14:15 16:11 200:25 201:6 202:25 203:3,16,24 claims 16:8,15 202:5,8 203:13 204:2 clarify 9:22 12:18 25:3 26:6	class 152:19 clause 82:18 clear 11:4 34:4 58:25 109:12 clearly 109:17 171:14 click 18:13,17 81:21 159:11 client 147:1,6,16 147:20,21 148:3 148:21,21 150:2,5 150:11,15,20 152:3,8,19 clients 146:21 147:25 148:10,16 149:3,8,17,20,21 151:10,18 152:12 clock 39:22 40:1 40:18,21,23 41:9 41:10,11,14,16 204:20 205:3 close 10:24 184:13 195:6 closed 11:1 code 75:12 83:8 93:23,24 213:9,12 213:19,20 cole's 13:4 colleague 127:15 colloquy 171:9 color 176:24 177:10 183:16,22 column 102:19 106:17 combined 181:17 come 20:21,25 21:21,24 22:25 coming 79:10 command 62:19 79:3 119:3 173:14 174:16 187:20
--	---	--	--

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[commands - correct]

commands 87:3,7	comprises 206:21	158:19,20	control 27:1 28:3
commencing 2:2	comprising 202:17	connection 125:21	33:17 63:21,24
comments 144:7	207:8	125:24 151:3	64:3,14,17 67:19
commercial 14:12	computer 33:19	connections 182:4	67:20,21 79:4,10
commercialized	36:12 122:12,14	182:8	85:11,13,14,18,21
194:20	206:24	connectors 157:17	85:22,25 86:3
communicate	computing 202:18	consider 34:18	91:16 118:20
151:10 152:3	conceived 21:19	57:14,23 91:3	119:12 163:1
community 128:4	203:3,25 206:20	191:22	165:7,11,21,24
136:8	conception 13:22	considered 58:9	176:25 177:11
companies 97:2,5	16:1 202:5,7	97:6	181:18 183:17,22
97:10,15,21 98:10	203:16 207:20	considering 194:2	184:20,21,25
176:8 179:24	concerning 13:19	constituent 45:25	185:1,4,9,16
181:12	14:1	constructive 16:4	197:11
company 8:21,22	concerns 131:3	consumer 143:8	controlled 85:6
81:14 175:17	137:15	143:15 178:18,22	controller 33:15
189:8 191:17,21	concluded 210:12	contact 213:9	33:16,19 45:20
compare 121:21	concludes 210:6	contain 114:4	66:24 67:22 79:3
170:4 178:3	conclusion 105:7	198:12	85:23 93:16
comparing 66:2	108:11 200:7	contained 113:25	118:24 119:2
176:16,18 177:15	conclusions	contains 30:11	152:4 154:3
178:8	170:17	contemplated	159:25 160:1
compete 178:22	confidential 1:16	61:15	167:1
179:1	210:2	contend 111:8,9	controllers 189:23
competed 179:3	configuration	content 14:9	controlling 146:21
179:11,16	102:2,8,9,12,16	contents 154:12	162:23 165:12
competitor's	configurations	context 23:13,23	controls 19:15
175:25 177:24	45:11 48:10,14	41:24 102:10	184:24 189:15
competitors 97:6	62:1	107:14 109:21	conventional
97:12 178:7,11	configure 138:23	110:1 156:10	181:17
complete 204:6	140:10	176:19 178:2	convert 122:16
212:14	configured 61:10	182:10	corner 160:4
completed 213:7	207:13	continue 54:7 55:7	correct 17:12 24:8
213:17 214:6	configuring	57:24 172:5 195:1	26:20 54:15 55:17
completely 191:23	150:25	195:14 196:17	55:20 57:12 58:7
completion 212:17	confirm 13:8	197:5,13 199:4	60:16 61:3 63:1
214:10	54:22	continued 4:1 5:1	69:17 96:25 114:7
complicated 54:21	connect 85:2,4	204:17	114:18 139:16
57:16 72:24	86:7,11	continues 41:22	159:2 161:7
component 41:5,5	connected 86:16	129:3 203:1	188:18 211:7
41:6 178:20	126:2 147:2 158:1		212:13

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[corrections - deposition]

corrections 213:14 213:15 214:3,4 correctly 42:25 117:8 157:3 186:6 counsel 2:7 6:10 6:21 7:11 9:25 10:3 12:24 38:25 74:8 99:9 125:8 146:4 156:15 169:18 171:13 194:4 213:18,21 214:7 county 211:2 212:2 course 95:6 106:2 court 1:1 6:12,19 7:3 9:12 11:17 17:21 18:6 22:3 99:16 124:3 127:7 135:23 144:23 153:10 170:10 174:25 185:23 190:14 192:6 200:15 209:21 covered 188:18 cp 163:22 cr 67:21 85:21,21 86:2,7,11,16 87:3 87:7 154:3,7 155:6 create 24:12,16 28:12 37:23 40:3 46:12 59:25 60:1 60:2 64:10,14,20 71:23 83:16 89:17 95:21 96:1,4,12,17 98:11 101:12 114:14 115:6 119:1,6 120:17 139:7 140:3 160:10 166:18,23	167:19 179:21,23 180:1 184:7 185:4 185:9,14 created 20:14,14 24:22 28:5,22 47:19 58:18,24 59:10 63:13,21 66:12 74:25 75:3 83:21 84:14 90:19 114:9 115:10 120:8 121:15 126:5,13 160:15 174:5 180:10,13 188:21 193:7 creates 108:22 197:22 creating 78:2 107:24 114:10 140:5 crestron 189:9,10 189:10 crestron's 189:16 189:22 csr 1:25 2:4 cullen 81:6 cullen's 81:7 culpert's 100:11 170:20 cumbersome 136:18 current 8:1,2 62:20 68:18 139:13 141:10 146:25 198:10 currently 7:24 54:25 55:2 66:3 66:11 110:9 custom 140:15 141:6 159:16 customizable 140:17	cv 1:7,11 6:14,15 d d 1:14 3:1 4:1 5:1 7:22 77:20,23,23 78:3,8,21 79:8,12 79:13,14,16,19 95:23 96:6 116:2 116:15,24 117:3,4 117:11,14,18 118:2,3,6,9,13,14 119:2,7 d'anne 1:25 2:3 6:19 212:4 danon 8:20,22 data 207:4 date 20:14,14,15 21:12,13,17 22:17 22:20,21 45:10,14 62:9 164:19 191:4 191:13 194:22,22 196:1 213:16 214:5 215:24 dated 4:7,17 31:3 153:14 164:15 186:9 191:9 211:10 dates 20:19 22:18 191:22,23 192:18 day 21:2,4 40:4,12 41:6 106:2,4,5,14 211:10 212:21 days 41:7 85:24 dcr 33:2,12,13,16 45:15,18,20 deal 187:11 december 20:15 20:16 33:23,25 202:15 203:4,25 204:5,14 205:1,7 205:12	decide 55:23 deck 128:24 187:23,24 188:9 188:14 declare 211:5 dedicated 126:7 default 138:22 defendant 1:8,13 define 25:13 34:16 97:4 179:1 194:18 defined 27:12 28:8 45:23 68:2 78:24 definition 87:24 degree 179:13,19 delete 138:24 demand 119:22 den 91:6,12,15,15 91:18,23 92:20 103:4,6 104:5,9,13 104:15,18,20,21 104:23,25 105:3 105:11,17,21 106:8,12,13 110:17 148:1,17 148:21 depend 144:7 178:25 dependent 138:13 depending 55:24 56:22 106:21 107:2 108:1 deployed 56:12 deponent 76:10 deposed 8:13,15 deposition 1:18 2:1 3:11,13 6:8,16 8:19,20,23 10:1,13 11:6,23 12:2 17:25 19:10 62:7 99:10 113:1 135:25 145:8
--	---	--	---

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[deposition - discuss]

170:12 203:6 210:11 212:7,10 212:16 213:19,22 213:24 214:8,10 depositions 9:1 describe 25:5 26:21 27:24 36:6 49:4,12 63:11 68:21 69:3 71:19 73:2,23 80:8 107:8,18 118:10 118:12,15,17 119:11 131:7,13 135:6 144:8 157:25 169:19 174:7 178:11 184:17 described 25:8 42:4 47:11,13,18 49:1 63:6 64:18 66:6 68:23 79:2 95:10 115:18 125:20 131:7 133:10 135:5 188:20 197:13 200:9 205:16 209:8 describes 95:6 104:8 125:4 158:7 describing 23:2 55:13 66:8 70:18 77:12,14 78:2 79:11 82:3,9,10 104:4,15,25 105:3 105:20 106:12,13 107:23 108:18,21 108:21 120:16 129:10,21 133:3 137:10 139:10 140:9 197:20	description 3:9 4:4 5:6 23:11 43:24 90:25 92:2 92:4,8 118:11 181:25 descriptions 207:24 design 14:1 16:12 35:7 42:14 58:10 58:18,18 79:4 86:2 114:9,11 120:15 160:25 162:18 168:3 169:14 175:5,22 175:23 176:13,16 177:16,20 178:3 178:14,20 180:2,4 180:15 188:23 205:15 designate 210:1 designated 1:15 12:6,16 13:1,14,18 13:21,25 14:5 169:21 170:24 172:3 206:8 designed 48:22 67:6,13,15 89:8,11 89:14 designer 58:11 designing 68:17 designs 35:13,13 178:8 desired 66:14 126:3 desktop 33:14,16 45:20 67:22 85:23 86:3 159:24,25 167:1 destroyed 126:5 126:13	detail 54:22 details 56:24 148:9 205:17 determine 143:15 176:8 determined 71:6 213:18,22 214:7 developers 69:11 development 14:1 16:13 69:15 device 23:25 27:1 28:3 64:3 67:20 79:10 85:7,21,22 91:16,24 119:12 126:7,8 179:20 182:22 183:4,10 197:11 202:18 207:4 devices 122:9,9 126:2 182:18 dialogue 72:15,16 72:23 160:23,25 162:1,5,19 165:5 166:4,9 167:5,11 167:22 168:9 169:8 differ 46:11 difference 33:9 42:5,10 68:1 168:14 170:9 different 17:5 19:15 23:17,18 24:7 25:7 29:6 30:12 43:9 44:19 47:22 51:17 53:8 53:22 57:24 58:3 59:17 60:20 61:12 61:14 64:23 67:5 67:12,15 69:20 94:14 101:12 104:12,16 105:22	105:24 106:4,4,5,8 106:14 108:19 118:20 119:22 148:16 149:8 179:21,23 187:12 188:17 192:2 196:13 197:7 differently 74:24 digital 3:20,22,23 21:9 122:8,15,17 122:21 123:6,10 145:4 153:13 172:16 173:5 digitalboy 140:13 141:2 digitalboy's 141:10 diligence 16:5 dining 24:5 27:17 28:9 29:7 43:3 46:6 50:9 59:12 83:13 90:20,21,23 92:7 direct 29:20 30:5 97:12 directed 44:2 170:5 direction 212:13 disadvantages 14:11 100:14 109:13 125:10 169:25 disagree 170:14 171:6 disagrees 172:3 disclosed 15:16 disclosure 108:15 109:7 discuss 17:14 82:21
--	--	---	--

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[discussed - ethernet]

discussed 17:7 114:13 183:13	202:1 203:6,20 204:23 205:24	e	194:15 198:21
discusses 101:22 162:23	206:3 208:8,14,18 208:23	e 1:14 3:1,8 4:1,3,7 4:17 5:1,5 7:22 13:4,7 15:5,7,8 17:2,5,9 19:8,20 75:22 76:14,17 77:18 78:24 80:3 80:8,13,14,15 82:16 186:2,9,12 186:16 213:9,12 214:1 215:3,3,3	electronic 178:19 electronics 178:22 element 203:16 207:21 elements 202:12 203:3,24 208:3,16 email 3:16 emanuel 2:16 embodied 204:7 embodiment 16:13 embodiments 14:1 emmanuel 6:24 employed 7:24 employee 76:3 employer 8:1 employer's 8:2 empty 71:11 83:3 enabled 202:17,19 202:22 engineer 75:11 123:7 engineering 69:8 enjoyed 136:19 enter 43:23 enters 162:19 entirely 79:24 109:20 entitled 155:13 175:4 192:11 entries 43:9 48:14 equalizer 165:5 equally 173:19 errata 213:14,16 214:3,5 esq 2:10,16 213:1 essentially 87:22 established 103:1 ethernet 86:12 123:8 157:17
discussing 135:8,9 154:15 156:12	documented 192:11	e.g. 202:20	
discussion 171:10 171:17	documents 15:3 16:24,25 18:16 21:9 193:7 205:19 206:2,4	earlier 21:8 31:16 33:23 34:10 45:21 79:2 80:1 95:3 112:22 118:25 145:8 154:7 162:17 168:20 170:3	
dislike 141:10	doing 37:2 141:17 176:9,17,19 177:16,24 178:6,8 180:15	earliest 13:23 16:9 76:15 194:15,17 196:4 199:21	
display 148:8,9	door 195:6	early 21:8 85:24 142:4 191:17,17	
dispute 171:1	downstairs 43:11 136:23,24 137:11 137:23	ease 136:20 138:10	
dissatisfaction 65:3	drag 146:14	easier 34:23 139:6	
distinction 47:2	draw 105:6	easy 35:24	
district 1:1,2 6:12 6:13	drawing 31:11 47:3	edit 150:6	
document 12:2,10 15:2 19:2,18 20:13 22:9 30:13 30:21 32:7,12 34:11 45:5 62:4,6 62:9,11 68:20,22 69:1,4 70:24 78:14 100:24 103:19 132:4 148:24 149:24 150:23 153:17,19 154:12 155:3,9 160:4 161:4 163:16,20 169:8 171:3,4 174:21 175:4,9,11,13,14 175:19 178:13 179:25 180:10,13 180:17,25 181:2,2 181:5 186:14,16 186:22,25 187:2 188:16 190:19,24 191:1,2,6,18,24 192:21,23 193:2,4 193:21 200:17,19	drive 2:17 drop 119:25 140:21 159:9 160:5 161:15 169:9,10	effect 59:20 115:19 effectively 24:13 28:11 40:2 42:14 187:20 effectuate 174:16 eight 181:16 either 9:2,6,22 13:5 36:21 67:21 73:8 87:10,14 120:19 124:21	
	duly 7:7 212:7 dynamic 47:23 65:13 83:4,7,15,17 83:20 84:1,9 96:1 96:4,5,12,17,18 101:12,15,17 104:16 112:17 113:8 114:14 120:25 121:3,21 160:16 dynamically 64:9 84:14 101:5 110:4 126:5,14		

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[ethernet - filed]

182:2 evaluate 203:7 evaluating 179:11 evening 103:5,13 103:24 104:5,11 104:21 105:1,15 105:23 event 212:20 events 120:2 everybody 15:9 evolved 169:1,4,5 exact 21:11,18 56:24 76:10 194:22 196:1 exactly 49:20,24 52:19 80:1 95:8 142:8 180:19 204:21 examination 3:3 7:14 examined 7:8 212:6 example 26:18,24 26:25 27:2 29:4 29:22 30:16,18,22 31:1 36:7,9 44:24 46:1 52:12 57:15 59:12 60:18 63:12 77:19 90:20 91:4 93:6 94:25 105:20 116:11,13,19 128:21 examples 26:2,5 29:10,16 37:4,12 37:19 48:19 60:3 60:6 exception 13:17 excerpt 125:7 excerpted 202:8 exchange 15:10	exclamation 18:14 excuse 50:3 73:4 116:12 162:6 182:15 195:6 executed 25:11,13 206:25 exhibit 3:10,12,14 3:15,16,17,18,20 3:22,23 4:5,7,9,11 4:13,15,17,19 5:7 5:8 10:16,22 11:9 11:14,15,19,22 12:23 17:16,17,19 17:20 18:4,5,9,17 18:19 19:5,22 20:4,6 21:22,25 22:1,5 23:13 27:21,25 31:2,9 39:16 41:18 43:7 44:18 45:9 47:25 61:21,23 66:1,10 68:20 69:18,20,21 69:24,24 72:10 74:23 75:19 95:2 95:4 99:13,14,19 123:25,25 124:1,9 126:23 127:1,2,5 128:1,9 131:19 135:19,19,21,24 138:6 144:14,19 144:21 145:3 153:8,9 174:20,23 185:20,21 190:10 190:12 192:1,2,4 200:12,13 201:25 202:8 209:19,20 exhibits 5:3 11:10 11:11 12:20 18:3 18:8 113:3 127:4 153:6	exist 89:13 107:9 107:19 existed 63:22,24 66:7 106:8 118:6 existence 145:14 existing 49:6,14 49:18 50:5,22 51:11 52:11 54:6 54:12 77:13 184:24 expect 45:24 experience 176:25 177:11 183:17,23 expert 86:14 126:16 170:17 200:7 explain 25:17 67:14 171:20 explained 170:25 explanation 18:13 explore 188:21,23 extent 9:16 203:5 external 85:4 extra 209:3 eyes 210:3 f f 1:14 face 177:1,12 183:18 fact 12:20 79:22 170:18 facts 15:25 fair 12:7 53:9 87:12 89:24 111:10 145:11 179:25 familiar 10:16 48:23 83:4 100:4 145:10,13 153:17 153:18 175:12 182:18 189:8,16	189:19,22 190:1,3 190:6 far 53:21 55:4 56:10 57:21 58:17 91:8 199:19 farrar 127:1,12 128:1,9 131:20 135:20,25 138:5 143:5 faster 146:15 favorite 40:7 129:25 130:3,17 favorites 128:14 129:15,18 feature 20:8,11,21 22:14 34:14,20 35:1,18 40:2,18 47:19 62:16,22 63:17,20,23 64:19 64:21 65:14 66:8 66:20 120:16 129:11 199:25 200:5 features 14:12 63:20 207:25 february 22:22 191:13 192:15 fed 3:12 federal 212:16 214:1,8,9 feed 42:15 feedback 111:18 133:18 144:3,11 feel 44:14 49:19 135:9 feelings 88:17,18 felt 43:22 field 159:11 fifth 80:18 filed 6:11 204:22 205:6
---	---	---	--

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[final - generally]

final 48:16 78:20 80:13,14 find 31:16 33:22 34:9,12 125:24 128:13 130:9,11 132:12 fine 13:3,12 74:11 77:6 103:18 195:7 firm 6:17,19 first 4:20 7:7 8:18 8:20 9:12 11:13 26:6 30:18 62:13 62:14,15 66:1 67:3 77:5 78:2 80:3 116:19 124:17 128:9 133:20 136:10,15 147:13 173:3 179:16 181:9,11 187:9 202:25 203:7 206:2,20,23 207:1,2,5,6,7,8,10 207:14 five 11:12 148:9 196:1,5 200:1 fix 111:23 fixes 142:25 flexible 62:23 63:17 floor 77:6 focus 175:5 178:14 focused 175:22 folder 11:11 18:14 153:6 follow 94:1 following 167:17 follows 7:8 213:8 foregoing 211:6 212:7,15 form 21:15 25:12 25:21 26:10 27:9	31:22 33:24 34:15 34:21 35:3,11,22 36:4,24 37:14 39:24 40:22 42:6 42:12 44:3,11 46:3,14,23 47:9,14 47:16 49:7,23 50:15 51:1,15 52:2,15 53:2,13,24 54:9 55:10 56:15 58:1,13 60:9,23 63:2,10 65:5,21 66:5,22 68:9 69:9 72:3,14 75:14 78:10 81:9 82:4 82:12 83:13 87:4 87:13 88:9,24 89:5 90:3,16,24 91:13,21,25 92:12 93:2,13,21 94:7,16 95:16,24 96:8,19 97:8 98:13 100:6 101:13 102:14 105:5,18 106:10 107:10,20 108:10 109:10 110:13,25 111:11 112:13,19 113:10,17 114:3 114:16,24 115:8 115:17 116:4,21 117:5,20 118:22 119:9,19 120:10 121:2,10 122:10 122:22 123:3,14 123:20 125:1 127:20 129:12 130:1 131:5,14 132:23 133:8 134:1,17 135:3,5 135:14 137:7,17 139:8 140:7 141:4	141:12,19 142:12 143:2,17 144:5 145:12 148:18 149:10 150:16 151:11 152:5,14 154:9 156:2,21,23 157:22 158:16 160:11,20 161:12 162:14 163:23 164:23 165:14,23 166:10,20 167:12 167:24 168:24 169:16 172:22 173:16 174:6,17 176:1,11 177:18 178:9,24 179:5,12 179:18 180:12,18 181:6 182:9,23 183:24 185:5,11 188:11,19 189:5 189:18,24 191:15 193:22 195:4,17 196:6,19 197:8,19 198:9,24 199:11 200:6 201:1,13,22 204:8,16 205:4 207:22 formal 138:1 format 22:21 formats 122:17 formed 71:10 119:14 131:16 forms 112:11,14 forum 143:19,22 forums 127:19,24 127:25 128:2,5 134:25 136:4 141:17,21,23 142:10,19,24 143:8,14 144:4	forward 168:8 171:8 found 30:19 204:22 founders 81:12,14 fourth 80:18 164:9 frcp 214:1 french 124:19 friendlier 43:18 43:20 front 20:13 22:17 100:22 frustrating 71:23 frustration 71:16 full 7:16 76:21 125:14 138:18 176:24 177:10 181:9 183:16,22 203:6 function 39:22 130:15 functionality 130:10 further 48:9 61:9 77:18 140:19 147:10 205:15 212:19 furthest 43:8 76:15
g			
gain 64:17 garden 28:10 59:18 gather 124:24 general 10:1 29:21 41:15 69:6 85:15 87:18 190:20 generally 15:15 124:22 144:11 164:15			

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[generate - grouped]

generate 37:8,25 64:24 106:3 119:3	109:14,15 111:25 113:1 123:2	27:18 28:9,9,12,17 29:1,5,6,8,11,13	120:25 121:23,24 121:25 122:2
generated 36:11 91:1	125:13 152:23 168:7 170:4	33:2,6,7,9 40:15 41:16 43:11 44:13	130:4 131:13,16 131:16 133:2,11
getting 111:18,20 144:3	171:12,13,15,15 171:20,21 175:10	45:19,22,24 46:2 46:11 49:6,14,18	136:23 137:10,22 137:23 138:20,25
give 9:10,17 26:2 29:4 36:18 38:18 46:1 51:20 53:18 63:21,23 109:15 205:6	179:9 185:19 194:7,11 206:7	50:5,8,10,11,14,18 50:22,25 51:4,4,6	139:15 140:6,20 140:22,24 155:25
given 28:6 150:19 210:6	good 6:5 37:2 44:14,15 99:6,8 110:5 144:11 176:20	51:11,12,14,25 52:11,13,24 54:6,8 54:12,13,17 55:6 55:14 56:23 57:4	156:4,7,10,18 157:1 161:12,14 161:16 163:5,9 164:2 165:7,11,12
gives 77:18 191:21	google 1:4,12 2:2 2:15 3:10,12 6:11	58:5,24 59:2,5,10 59:13,16,17 60:1,2	165:22,25 166:19 166:23 167:19
giving 74:5 127:2	6:23 8:25 172:3	60:21 64:4 65:20	168:23 172:21,23
glad 124:18	200:24 201:6,12	66:20 67:23 70:12	173:12,15,19,21
glean 180:21	201:21 202:4	70:17 71:10,23	173:23 174:2,9,12
go 9:11 12:22,22 13:12 28:24 29:25 30:8,20 39:15 57:17 62:11 64:25 65:9 69:18 79:5 80:3 87:24 101:25 104:10,13 110:18 111:22 125:7 130:6 158:5,10 159:4,22 161:4 164:4 165:2 166:1 171:3,8 187:23 193:8 199:17 203:10 208:21 209:3	209:11,12,13 213:4 215:1	72:13 73:17,18 78:2,3,20 79:5 83:2,5,7,13,13,18 83:20 88:8,8,14,23 90:14 91:18,24 92:25 93:12,19 94:1,10,14 95:21 95:22 96:4,5,17,18 98:18 101:6,17 102:2,7,12,16 105:14,15,16,21 105:23,24 106:23 106:24 107:4,6,9 107:19,24 108:2,3 108:5,6,22,23,23 108:24 109:3,4,8,9 110:7,9,10,24 111:14 112:15 113:15 115:16,20 115:20,21 116:19 116:20,24,24 117:3,10,13,14,17 117:18 118:2,9,13 119:4,6,8,13,14,25	174:15 185:14 187:19 188:8 194:25 195:2,13 195:15,19,19 196:11,15,17,21 196:22,22 198:14 198:17 200:5
goal 58:23	google's 11:15,22 17:19 18:4 22:1 127:5 135:21 144:21 153:8 174:23 185:21 190:12 192:4 200:13 209:19	grouped 25:25 42:1,3 46:9,18,21 46:21 47:20 49:3 50:9 55:2 56:6 59:18 60:13,19 61:4,6 65:11 70:19 71:22,25 74:1 79:14,14,15 79:20 81:25 82:9 82:20,25 87:11,16 87:23 92:21 93:9 93:17 101:5 103:4 103:7 104:6,9 105:12 114:22 116:1,2,8,14,15 122:7 156:11 157:5 161:10	
goes 83:15 100:13 100:17 103:9 136:19 139:2	google's 4:20		
going 6:6 13:4 21:20,24 27:18 30:8 38:25 39:4 54:20,21 74:8,12 78:11 98:22 100:9	grab 146:14 graham 127:12 143:5 grammar 111:6 graphic 175:5,22 176:13,16 177:16 178:14 great 115:4 165:19 greenwood 130:7 130:21 ground 9:10 group 24:13,14,18 24:20 25:7,7,8,20 26:8,14 27:13,17		

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[grouped - identified]

166:8 173:18 grouping 5:8 23:4 31:14,25 32:4,12 32:18,24 46:12 47:23,23 55:25 58:16 64:1,11 65:10,16 66:15,25 67:10 72:21 83:22 89:18 94:25 96:2 96:12 101:15 104:12 106:5 107:25 111:10,13 112:11,11,18 113:4,9 121:3,15 121:17,18,22 136:12 207:9 groupings 23:4 48:4 64:20,22,25 65:13 68:2 72:22 89:18 106:3 119:23 120:18 121:8 129:23 131:10 groups 22:19 23:17,18,21 24:7 24:17,22 28:8,8,12 28:22,25 31:15,20 32:14 39:19 41:8 45:15,18,20 46:7 47:3,4,7 58:25 59:20,22 60:1 62:18 64:6,7,10 65:4,16,18 66:12 78:4,21 80:9,19 81:22 82:5,10,19 82:20 83:10,16 84:2,10,13 90:1,5 90:10,11 92:17 93:25 98:11 101:12 102:25 103:13,24 104:16	105:4,16 106:2,8 106:12,14 108:9 108:16,19 110:12 113:25 114:4,14 115:6,12,14 117:18 118:7,12 118:21 119:1 120:7 126:4,13,20 138:24 139:7,11 140:6,10,15,19 141:7 160:10,15 160:16 161:5,9 162:24 163:8,21 174:5 185:9,9,16 194:21 195:21,23 195:25 196:9 199:25 200:9 204:19 guaranteed 120:25 guess 106:5 118:10 139:13 guests 77:4 guide 3:22,24 153:14 154:6,14 guides 153:20 h h 3:8 4:3 5:5 8:5 215:3 halfway 101:2 166:5 hand 28:14 164:5 165:6 212:21 handheld 4:9 67:21 85:20,22 190:19 handled 213:8 hang 170:7 happen 24:19,21 24:25 26:3,9 27:7 37:9 49:5,13,17	93:11 120:2 happened 38:15 53:1 86:23 93:19 93:24 119:12 121:18 143:11 168:22 happening 120:3 happens 52:19 70:3 94:15 happy 13:5,8 135:6,7 144:8,10 170:10 hard 138:4 head 9:17 heading 70:2 hear 208:11 heard 133:19,20 182:20 189:10 190:5 held 6:16 39:6 74:14 98:24 112:2 153:1 171:10,17 171:23 194:9 help 12:21 13:2 86:2 95:1 110:1 161:3 205:21 helpful 12:24 hereto 5:3 hifi 158:1 high 84:20 highlighted 155:14 167:4 182:11 highly 1:16 210:2 hilarious 138:1 hit 167:21,23 171:4 174:3 hitting 163:9 hmmm 199:15 hold 155:19	holding 8:21 home 7:19 64:23 64:24 97:3,4 181:13,22 182:1 184:21,25 185:2 189:12,16 190:3,6 209:11,14 hour 39:1 74:9 111:19 hours 170:16 208:25 house 46:5 148:17 161:18 household 155:22 156:1,8,20 houses 189:23 housing 181:15 hub 86:12 hurt 88:18 i icon 37:16 idea 21:1,6,19 22:14 23:1 42:16 44:12 64:5 84:1,9 84:17 95:7 115:21 140:14 ideas 20:23 37:8 37:25,25 69:8 194:1 204:18 205:16 identification 5:3 11:16 14:19 16:17 17:21 18:6 22:2 99:15 124:2 127:6 135:22 144:22 153:9 174:24 185:22 190:13 192:5 200:14 209:21 identified 33:22 34:9 35:24 36:3
--	--	--	--

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[identified - invoked]

<p>90:15 179:16 identifier 165:6 identify 21:13 30:14,23 35:25,25 36:23 37:5,13 143:8 identifying 158:14 188:17 illinois 2:12,18 illustrated 59:8 illustration 28:21 155:5 illustrations 28:4 209:7 image 19:11 146:23 147:14,21 148:6 158:13 images 23:3 146:23 imagine 43:1 138:16,17 143:10 181:3 implement 35:9 37:12 73:13 74:6 84:1,9 implementation 55:21,25 56:18,21 58:12 69:7 77:13 106:21 107:3 108:1 139:14 174:15,19 implementations 53:8,11,22 55:9,19 55:23 56:12 72:1 168:21,22 implemented 60:8 74:22 194:3,24 195:12,20,23 196:9 implementing 54:5 57:23</p>	<p>important 34:13 34:16,19 35:1,6,17 36:16 183:21,25 imposition 138:15 improper 169:22 170:18 175:24 177:23 178:7 improvements 14:13 inaccurate 9:7 inc.'s 3:12 inc.'s 4:19 include 35:13 89:24 105:16 114:14 128:23 133:6 197:22 included 29:24 35:5,14 84:17 123:19 157:12,19 213:14 214:3 includes 160:23 including 14:16 19:16 154:1 202:21 207:10 independently 54:17 indicate 193:19 indicates 22:25 79:22 indication 207:5 individual 92:13 140:21 170:19 info 147:22 information 13:16 13:18,22 88:21 89:20 119:17 122:21 123:6,8,10 125:22 126:1,19 147:16 203:15 207:20</p>	<p>informed 119:7 infrared 184:24 inputs 157:13 insomuch 132:25 179:19 install 148:16 installed 189:23 instance 24:1 30:15 31:15 37:17 40:6 76:25 83:11 121:25 133:12 168:2 instances 33:20 34:7 instructions 23:16 206:22 instructs 10:3 intellectual 3:18 intends 29:4 intent 58:17 59:3 59:13 61:5,7 160:13 interaction 169:2 169:4,5 interchangeably 23:7 interested 212:19 interesting 199:15 interface 20:8 27:2 28:2,11 64:4 67:20 90:18,21 92:20 94:25 115:10 157:5 174:12 interpose 100:17 interpret 169:19 203:13 interpreted 176:3 interrogatories 4:20</p>	<p>interrogatory 202:3 205:19 introduce 185:19 202:1 introduced 21:22 21:25 123:24 126:23 153:6 174:20 194:21 introducing 18:2 135:18 190:10 introduction 66:2 invented 111:9,12 invention 68:14 112:9,12,18,20 113:9,16 114:2 120:5,7,12 125:20 125:23 131:3,6 132:21 133:6,11 134:22 137:14 141:9 170:3,4 200:10 204:7,13 205:1,14 inventions 13:24 16:11,14 112:24 120:17 194:15,19 196:4 199:20,22 200:4,25 201:6 inventor 124:10 inventors 99:20 invoke 24:24 25:4 66:25 67:10 92:24 invoked 23:18 24:7,10,19 25:11 25:18 26:8,14 59:16 60:25 61:11 61:20 64:7 75:16 75:17 79:21 89:21 93:11 94:15 95:9 95:13 162:12 195:3,16,20 196:11 198:21</p>
---	---	---	---

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[invoked - key]

199:3 207:15 invokes 28:23 29:2 79:9 197:23 198:13,16 invoking 24:21 121:19 involved 8:18,24 ir 184:24 ish 163:21 isochronias 125:25 126:19,19 issued 153:21 issues 142:25 144:12 issuing 164:14 item 46:17,22 82:16,18 166:15	judge 100:11 170:20 july 186:9 june 1:21 2:3 3:16 6:2,6 191:21 192:19 212:21 213:3,5	95:20 96:3,16,22 97:13 98:9,16,21 99:3,12,18 100:11 100:13,19,20 101:1,16 102:18 103:18,22 104:14 105:2,8 106:6,16 107:15 108:7,14 109:1,6,22 110:22 111:3,15,24 112:6 112:16,23 113:13 113:21 114:6,17 115:1,3,13,23 116:9 117:1,15 118:4 119:5,16 120:4,13 121:5,12 122:19,24 123:1 123:11,16,17,24 124:4 125:6,11,12 126:22 127:1,8,11 127:23 128:7 129:16,24 130:5 131:2,8,18 132:5,7 132:20 133:4,14 134:3,21 135:11 135:18,24 136:2,9 137:12,24 139:12 140:1,11 141:8,15 141:22 142:9,16 142:22 143:6,13 143:21 144:2,12 144:16,19 145:2 145:16 146:6,11 146:19 147:12 148:23 149:14,23 150:21 151:14,15 152:1,10,20 153:5 153:12 154:10 156:6,13,17 157:6 157:16 158:4,24 159:21 160:14	161:2 162:20 163:15 164:3,13 164:21 165:1,18 166:1,3,16,24 167:9,16 168:6 169:3 170:2,7,25 171:12,19 172:2,7 173:1,22 174:13 174:20 175:1 176:6,15 177:22 178:12 179:2,8,14 179:22 180:16,24 181:8 182:13 183:1 184:3 185:7 185:13,19 186:1 186:17 187:5 188:15 189:1,7,21 190:2,10,15,18 191:5,25 192:3,7 192:10,24 193:3 194:6,13 195:7,10 195:22 196:12,24 197:16 198:1,19 199:6,18 200:2,11 200:16,22 201:4 201:11,15,24 203:14,22 204:9 204:11,24 205:9 205:18,23 206:7 206:10 208:1,6,11 208:13,19 209:5 209:10,22 213:1 keep 38:5 77:1,16 136:25 keith 134:6,6,10 134:15 138:7 140:2,5 ken 130:7,21 kept 38:9 key 50:1,6
j	k		
j 134:5 jack's 162:8 166:12,14,14 169:10,11 january 190:21 191:4,10,14 jeff 2:22 6:17 128:10 129:10 job 1:24 37:24 213:5 215:2 jog 95:1 join 51:4,6 78:4 79:9 117:18 118:8 198:14 joined 49:2,5,13 49:17 50:11,14,18 52:24 54:12 55:6 56:8,13,18 57:3,19 57:20 61:18 73:3 73:7 92:25 94:13 191:17,20 joining 50:5 54:5 72:12 118:1	k 134:5 kaplan 2:16 3:5 6:23,23 7:12,15 11:13,21 12:13,22 13:3,9,12 14:3 17:22 18:2,7 19:4 19:21 21:20 22:4 25:14 26:4,13 27:20 30:17 32:2 32:10 34:1,3,17,24 35:8,16 36:1,8,13 37:3,7,10,18 39:3 39:10 40:17 41:1 42:9,21 44:5,7,16 46:10,19 47:1,12 47:24 49:10 50:2 50:21 51:9,19 52:10,22 53:6,20 54:3,14 55:16 57:1,7,13 58:6 59:4 60:15 61:2 63:7,14 65:7,24 66:9 67:2 68:5,13 69:5,14 72:8 74:11,18 76:13 78:16,17 81:13 82:7,17 83:24 84:6,15,24 85:10 86:1,6,10,19 87:1 87:8,20 88:5,16 89:2,9 90:7,22 91:2,17,22 92:3,15 93:4,18 94:3,11,19		

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[kind - look]

kind 47:22 193:2	199:21	legal 6:18,20	136:17
kitchen 40:8 43:3	kusano 186:3	108:11 138:2	list 133:15,23,25
43:13 44:21 46:5	I	170:17 200:7	159:9,15 166:15
50:9,11 59:13	I 1:14 8:5 139:2	210:9 213:7	listed 113:19
73:24 77:2,9,15,16	label 139:20	level 84:20	148:3 179:25
77:17 83:12 90:20	labeled 18:19 19:5	levels 61:16	little 36:19 39:1
90:21,23 91:7,11	19:24 66:24 67:10	library 147:15	54:22 57:15 74:9
91:15,15,18,23	148:1,1	life 182:24 183:5,7	124:7 144:16
92:7,10,19 105:12	lambourne 1:19	limited 200:5	146:14 147:10
148:2,17,22 150:7	2:1 3:4 6:8,9 7:6	line 102:19,22	196:13
159:2 162:5	7:18,24 13:1,5,14	105:9 106:18	live 28:12
169:11,12 188:4,9	13:17,21,25 14:4	112:25 146:24	lives 29:8
188:13	21:20 34:5 39:11	154:18,19,22	living 24:3,4 27:16
knew 145:14,24	61:21 74:19 75:18	166:15 181:16	28:9 50:8 59:12
know 9:22 10:7	99:4,12,20 100:21	213:15 214:4	73:25 103:7 104:5
13:6 21:3,4 27:17	109:18 112:7	215:4,7,10,13,16	104:13,18 105:11
28:24 39:16 48:21	125:13 126:22	215:19	llc 1:4,12 2:15
79:19 80:1 86:15	153:5 175:6	lines 43:10 44:20	6:11 213:4 215:1
87:17 88:6,25	190:21 192:15	lining 138:12	llc's 3:12
102:20 111:13	194:14 200:23	link 64:3,13 65:3	llc's 3:10
120:2 121:24	203:9 206:8,11	70:12 77:4,22,22	llp 2:10,16
122:1 123:15,18	209:22 210:7,7	77:23 110:6,18	load 144:17
124:5 127:8,12,21	211:5,14 213:5	137:15 139:6	146:10
132:5 135:17	215:2	160:5,9,10,24	locked 213:12
143:4 144:10	lambourne's	161:1,15,17,25	214:1
147:11 156:25	205:21 206:5	162:4,17,19 166:4	logged 10:19
157:25 160:22	larger 144:16	167:5,6,11,11,21	long 30:21 119:17
174:14,18 182:14	146:11	167:21 168:15,17	121:1 132:1
182:17 190:15	late 95:7 142:17	linked 43:8 56:23	145:25 146:9
192:7 194:14,19	lcd 181:16	77:2 79:8,8 90:1,5	175:12 202:9
194:21 199:19	lead 71:15	90:10,11,14,19	longer 118:9,13
200:8 204:21,22	leading 203:12	91:10 110:17,20	120:8 121:8 122:1
knowledge 21:6	led 14:17	162:5,12 166:13	127:16
211:8	lee 2:10,13 6:25	linking 65:1 66:13	look 22:16 27:21
knowledgeable	leeway 109:15	76:24 78:7,8,8,20	46:8 69:2 105:9
14:20 16:18	left 25:18,22 28:14	81:24 110:4	124:16 128:1
known 13:23	47:21 147:14	130:11,24 131:11	147:13,21 157:9
16:10 112:12,18	157:20 158:13	131:12,13,15	175:20 180:6
113:9,15 114:1	160:4 164:5 165:6	137:1,20 138:11	191:9,23 199:17
187:16 194:15,17	188:8	links 128:14	200:11 209:16
194:18 196:4		129:15,18,22	

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[looked - mode]

looked 15:5 17:2,2 17:3 21:9 100:3 205:23	80:15 82:16 186:2 186:9,12,16	master 126:8	151:21 205:21
looking 33:20 34:7 37:22 80:11,13 82:13,14 95:3 136:8 148:7 151:23 163:14 175:24 176:2,3,5,7 176:12,19,20 177:19,23 178:2,7 179:21 180:2	main 41:5,5 159:25	match 52:12 164:12	206:5,6
looks 19:3 20:20 136:5,7 148:20 150:18 152:8 158:22 175:11,12 175:20 191:2 193:1 208:14	maintain 38:2	matched 176:9	mentioned 15:14 31:18 53:7 67:9 67:11 74:21 87:25 123:12 145:8 154:7 205:3
los 211:2 212:2	majik 134:5 138:6 139:5	matter 6:10 10:2 12:25 14:14 69:6 170:1 205:22	mentions 125:3
losing 104:22	making 97:2,11,22 208:17	maximum 158:17	menu 46:17,22 108:1 110:6 147:14,22 159:25 172:18 173:7
lost 120:20 167:15	management 115:10 143:7 181:4	mean 23:14 24:10 24:14 25:4 27:14 28:20 29:21 32:3 32:17 33:12 41:4 41:11,13 42:18 43:20 45:18 49:1 50:3,4 52:6,7 55:22 58:18 59:7 60:11,25 61:8,16 63:19 67:7 70:15 75:6,8 83:7 85:13 89:10 92:5,6,7 96:14 108:20 111:13 114:8 119:11 122:13 125:3 129:17 135:5 144:6 178:17 181:21,24 182:24 201:14 204:2	messages 11:6
lots 137:20	manager 76:4,11		met 15:1
lower 160:4	manner 83:10 126:6		method 72:18
ls3ip.com 2:13	manual 3:20 130:16 131:1 145:4,17,23 160:23 164:20		middle 31:11 128:8 155:14 161:25 165:4 168:8
lunch 98:24 99:6 111:19	manually 64:2,13 64:20,25 65:3,16 66:13 130:11 137:1		mieko 186:3,7,8
m	manuals 164:15 164:16,19,22		millington 69:6 99:21 124:11
m 134:5	marc 2:16 6:23 122:23 213:1		mind 146:7
mac 33:18 85:24	march 22:20,23 23:1	meaning 29:1 156:11	minute 206:14
macro 5:7 23:6,10 23:14,20 24:12 25:9,10 28:5 32:21 129:7 130:14	marckaplan 2:19 213:2	means 41:15 102:9 109:21 126:12,19 133:1 138:11	minutes 209:1
macros 23:3 48:7 48:9,13	marked 5:3 11:10 11:16 17:20 18:5 22:2 99:15 124:2 127:6 135:22 144:22 153:9 174:24 185:22 190:13 192:5 200:14 209:20	meant 24:11 34:1 63:20 69:24 128:5	misdating 164:22
mail 4:7,17 13:4,7 15:5,7,8 17:2,5,9 19:8,20 75:22 76:14,17 77:18 78:24 80:3,8,13,14	market 178:5 184:8 189:14	media 6:7 207:14 210:8	misunderstand 31:21
		medium 206:25	misunderstood 24:25
		meets 202:23	mode 41:21,24,25 43:11,16,17,24 44:2,9,15,19,25 45:1,3 48:8,15,15 48:16,23,25 49:17 50:13 51:13,23,24 52:24 54:5,6 55:1 60:19 62:20 63:5 63:5,8,12 66:25 67:10,17 74:22 77:24 78:4,22
		memory 95:1 120:21 123:19	

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[mode - non]

79:3,5,9,11 81:23 87:11,12,18,21 92:24 93:11,15,16 94:13,15 95:9,12 128:18,23,24 129:3 139:17,21 139:24,24 160:19 160:25 161:20 162:7,12,18 187:16,20 195:2 195:15 196:18 197:1,4,6 198:4 199:2 modes 128:22 162:6 modified 20:14,15 190:21 192:15 modify 150:14 moment 21:18 23:19 30:8 32:6 37:21 59:16 70:21 79:5 83:12,21 111:17 118:7 138:19 144:25 186:24 195:5 198:12 monday 1:21 2:3 6:2 80:16 month 21:4 164:9 morning 6:5 23:5 28:5,24 43:12 48:8,15 103:2,13 103:24 104:4,8,11 104:20,24 105:15 105:22 128:18,19 moungey 1:25 2:3 6:19 212:4 mouse 19:13 30:24 mouthful 207:16 move 13:11 75:18 108:23 198:17	multi 168:3 multiple 29:14,17 31:9,19,19 42:22 42:23 59:22,25 86:17 89:18 101:12 105:4 108:9,16 110:12 137:2 149:17 167:10 mumbling 55:19 music 3:22,23 24:15,16 26:1,8,15 29:7 40:4,8,11 41:7,8 42:3 44:14 50:19,23 51:7,8,11 51:11,24 52:1,6,8 52:14 53:16,16 54:7 55:2,7,14,15 56:1,2,7,9,19,22 57:4,8,18,20,24 58:3,17,19,23 59:3 61:11,18,19 67:24 70:3,10,25 71:9,12 71:21,24,24 73:8 73:18,19 74:3 83:1 87:15 94:14 95:14,15 103:8 104:13,23 105:13 106:4 115:22 116:7,8 148:2 149:7,16 152:17 152:19 153:13 161:14,16 168:16 172:16,17 173:5,6 174:10 187:10,19 187:24 188:5,10 188:14 189:3 196:15,16,18 197:10,11,18 198:5,13 199:2,5,8 199:9	musiccast 3:20 145:3,7 146:21 147:1,2,6 148:10 148:15 149:3,8,17 150:2,11,14,19,25 151:8,10,18 152:2 152:8,9,11,11,12 152:17 mute 155:13,18,19 155:20,25 156:7 156:19 157:4 163:5,8,9,21 164:1 n n 1:14,14 2:17 3:1 4:1 5:1 name 6:17 7:16 8:22 23:4,5 24:3,4 28:6 34:18,23 35:14,21,24 36:3 36:11,15,17,18,22 36:22 37:2,5,13 43:18 44:8,15 90:2,11,23,25 91:24 92:4,5,7,11 92:16 97:25 131:20 148:3 150:6,6,14,19 158:14,20,23 159:1,8,10,11,14 159:15,16 175:17 182:20 186:6 named 92:9,14 99:20 124:10 130:7 134:5 136:15 140:13 159:20 212:7,11 names 138:3 150:2 181:1 naming 34:13,25 35:5,10 36:21 92:10	necessarily 35:1 78:23,25 96:7 necessary 213:14 214:3 need 11:18 68:15 79:20 94:21 103:4 109:24,25 131:7 133:3 139:11 171:1 186:21,22 needed 142:25 needs 135:9 neither 137:25 nest 209:12,13,14 network 123:8,9 126:3 150:25 151:2 181:23,24 182:1,1,2 202:17 202:19,22 207:4,5 networked 181:12 181:21 182:3,7 204:4 networking 182:15,16 networks 175:15 never 146:7 new 21:22 72:13 73:17,18 94:1 110:10 118:2,13 126:23 127:2 135:18,19 159:9 174:20 185:19 190:10 news 103:5 nice 128:25 nicholas 99:21 124:11 nichols 2:22 6:17 208:22 nods 9:17 non 13:15,22 46:11 47:3 206:24
---	--	--	---

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[normally - okay]

normally 77:1,16	33:24 34:15,21	130:22 131:5,14	151:20 156:9
northern 1:2 6:12	35:3,11,22 36:4,24	132:10,23 133:8	172:6
notate 170:10	37:14 39:24 40:22	134:1,17 135:3,14	occur 104:12
171:2,5	42:6,12 44:3,11	136:6 137:7,17	occurred 120:20
notating 213:15	46:3,14,23 47:9,16	139:8,18 140:7	october 31:3,6
214:4	49:7,23 50:15	141:4,12,19 142:6	34:2,10 38:23
note 72:18 170:13	51:1,15 52:2,15	142:12 143:2,9,17	45:10
notice 3:10,13	53:2,13,24 54:9	143:24 144:5	offer 207:20
11:22 109:14	55:10 56:15 57:5	145:12 147:8	offering 177:1,12
noting 139:13	57:10 58:1,13	148:18 149:10	183:18,23 184:1
november 175:6	60:9,23 63:2,10	150:16 151:11	office 3:19 182:1
number 6:13,14	65:5,21 66:5,22	152:5,14 154:9	213:11
11:11 12:17,17	67:16 68:9 69:9	156:2,21,23	oh 19:25 34:1
13:15,20 14:8,24	72:3 76:9 78:10	157:14,22 158:16	69:22 70:1 80:14
15:4,21,23 16:22	81:9,9 82:4,12	159:18 160:11,20	101:21 133:17
17:7,11,11,14,14	83:19 84:3,11,22	162:14 163:10,23	154:19,24 161:8
20:2 24:13 30:23	85:8,19 86:4,8,13	164:10,17,23	177:7
41:4 52:17 61:9	86:21 87:4,13	165:14,23 166:10	okay 9:14,23 10:4
70:22 71:8,20	88:3,9,24 89:5	166:20 167:2,12	10:10,11 11:2,13
72:10 99:19 100:4	90:3,16,24 91:13	167:24 168:24	11:20 12:11 13:9
124:10 126:25	91:21,25 92:12	169:16 172:22	13:10 14:8 18:16
127:2 133:10,11	93:2,13,21 94:7,16	173:16 174:6,17	18:18 19:19 20:3
138:13 158:25	95:16,24 96:8,19	176:1,11 177:18	22:19 27:17 28:1
159:7 176:4	97:8 98:6,13	178:9,24 179:5,12	28:2 30:5,8,10,20
181:11 210:8	100:6 101:13	179:18 180:12,18	31:1,8 39:17 43:6
213:15 214:4	102:14 103:15	181:6 182:9,23	45:8 60:3 61:22
numbered 22:5	104:2,17 105:5,18	183:24 185:5,11	68:24 73:10 75:18
146:5 174:21	106:10 107:10,20	188:11,19 189:5	79:8 80:14 99:8
206:13	108:10 109:10	189:18,24 191:15	99:17 100:16,19
numbers 164:12	110:13,25 111:11	193:22 195:4,17	100:25 103:20
o	112:13,19 113:10	196:6,19 197:8,19	106:19 110:2
o 1:14	113:17 114:3,16	198:9,24 199:11	124:6,8,18 126:24
o'clock 40:8 112:1	114:24 115:8,17	199:23 200:6	135:18 136:3
o0o 210:13	116:4,21 117:5,20	201:1,9,13,22	141:16 144:14,18
oath 8:7,8 39:13	118:22 119:9,19	204:8,16 205:4	145:22 148:25
object 9:25 26:11	120:10 121:2,10	207:22	149:25 153:11
203:5	122:10,22 123:3	objections 3:12	154:13 155:2,13
objecting 170:9	123:14,20 124:25	4:19 13:13 36:10	156:24 157:8
objection 21:15	125:1 126:15	37:6 100:17	158:6,6 159:5,23
25:12,21 26:10	127:20 128:3	108:17 117:24	161:24 163:18
27:8,9 31:22	129:12,19 130:1	142:18 149:18	165:3 166:2 167:8

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[okay - parenthesis]

167:23 169:7 177:7 184:5 185:24 186:20,24 187:3,8 192:13 193:9 202:11 206:15 208:7,9,13 once 27:5 144:19 146:12 ones 17:6 113:1 online 182:25 183:10 open 10:23 11:3 11:13 46:5 81:22 99:13 136:1 operate 87:10,11 88:1 153:21 operating 33:18 85:24 operations 101:7 101:22 opinion 91:24 opportunity 184:6 208:6,17 opposed 9:17 option 58:22 73:2 73:3,13,15,23 74:6 options 70:8 73:5 147:15 158:25 162:4 169:11 order 1:16 56:23 100:12 102:24 115:20 168:13 170:21 210:2 ordered 17:24 ordering 55:24 original 65:25 79:3 117:9 118:12 168:4 206:3 212:16 213:10,21 originally 67:18 151:22	outcome 57:23 output 101:18 outputs 157:13 outside 26:11 27:8 36:4,24 37:14 39:24 46:14 47:9 47:16 50:15 51:1 51:15 52:2 53:2 53:13,24 54:9 55:10 56:15 57:5 58:1,13 59:17 60:9,23 67:16 69:9 72:3 76:9 81:10 83:19 84:3 84:22 85:8,19 86:4,8,13,21 87:4 88:3,9 89:5 90:3 90:16 93:13,21 94:7,16 95:16,24 96:8,19 97:8 98:6 100:6,9 103:15 104:2,17 105:18 107:10,20 108:10 109:10,17 110:13 110:25 116:4,21 117:5,20 118:22 119:9,19 122:10 123:3,20 124:25 126:15 128:3 129:12,19 130:1 130:22 132:10,23 134:17 135:3,14 136:6 137:7,17 139:8,18 140:7 141:4,12,19 142:6 142:12 143:2,9,17 143:24 147:8 148:18 149:10 150:16 151:11 152:5,14 156:2,23 157:14,22 159:18	160:11,20 162:14 163:10,23 164:10 164:17,23 165:14 166:10,20 167:2 167:12,24 168:24 169:16 overall 50:17 overlap 105:16 owner 145:17 owner's 3:20 145:4 p p 3:13 8:5 p.m. 80:16 98:25 98:25 112:3,3 153:2,2 171:24,24 194:10,10 210:5 210:12 page 3:3,9 4:4 5:6 12:1 18:11 20:13 22:17,19,24 23:13 27:21,25 30:23 31:1,2,8 32:5 33:22 34:9 39:15 39:18 41:18,20 43:7 44:17 45:5,9 47:25 48:3 54:19 62:11 69:18,22,24 70:2 72:9 80:3,4 80:13 95:4 100:22 124:17 125:7 128:9 130:6 131:19,23 134:8 138:5 140:13 145:21 146:2,3,4 146:20 148:24 149:24 150:1,22 150:24 153:14,24 154:11,14,17,19 154:20,21 155:2,5 155:9,12 157:7	158:5,10 159:4,22 161:4,23,25 162:21,23 164:4,5 165:2,4 166:1,5 168:7,9,12 169:7 172:9,10 176:21 177:4,5 179:16 181:9 183:12 187:6 191:8 193:8 193:9 202:1,6,9 203:18 206:12,13 206:13 208:3 213:15 214:4 215:4,7,10,13,16 215:19 pages 22:18 202:10 203:8 206:2 213:14,17 213:17 214:3,6,6 paging 146:13 pain 143:15 painful 138:17 pair 47:19 panel 157:9,12 167:4 paragraph 62:13 62:14,15 66:1,10 72:9 76:21 82:14 82:21 103:17 107:13 108:20 109:24 125:15 128:10 155:16 176:22 177:5 181:9 207:17,18 paragraphs 80:19 paren 72:19 73:20 81:22 140:16,17 parenthesis 16:3 32:13 48:9,13 71:3 81:1,2
--	--	--	---

[part - play]

part 3:22,24 25:7 27:13 31:8,9 32:1 32:22 34:19 35:1 35:17 37:24 40:18 44:25 45:3 50:1,6 50:10 54:13,16 58:9 59:10 61:1 64:4 68:2 71:13 80:2 82:8 88:13 88:22 92:18 100:10 105:3,21 105:22,23 106:1 106:12,14 108:5,8 108:16 109:8 110:9,10,12,12 115:11,20 117:13 119:13,14 120:16 121:17,23,24 122:2 128:11 133:7,24 145:23 152:16 160:25 170:11 174:12 186:16 193:12 198:15 202:13 204:19	94:15 95:9,12 105:13 128:22 139:17,21,23,24 140:16 160:19,25 161:20 162:7,12 162:18 167:7 187:16,20	pending 10:9 156:16,18 people 43:1 141:25 143:25 144:7 181:3 perfect 111:5 130:25 performance 14:10 period 95:8 120:8 213:18 214:7 perjury 211:6 213:17 214:6 perma 45:15,18,19 46:1,11 47:3,3,7 permanent 45:19 45:22 80:9,19 permanently 46:18,21 47:20 76:24 persist 120:1 121:4 140:24 persisted 119:18 persistent 121:1 person 83:8 86:22 104:10 118:17 137:21 143:11 personal 170:12 171:2 persons 14:19 16:17 perspective 23:12 24:12 34:19 50:7 83:9 84:13 93:24 94:10 122:13 156:25 177:17 180:22 pertains 212:15 philips 97:16 182:15 184:12,17 184:19 185:3,8	phillips 185:15 phrase 45:15 physical 38:9 pick 31:13 32:12 40:9,14 73:11 110:7 112:9 piece 40:4 61:11 pieces 29:7 pinpoints 143:8 place 80:11 104:22 118:14 144:24 158:22 163:14 212:11 places 29:3 plaintiff 1:5,10 6:10 plaintiff's 99:14 124:1 planned 46:5 planning 185:1 play 24:15 26:1 29:7 40:3,4,11 41:6,7,8 50:19 51:7 52:8 53:17 54:16,17 56:3,19 56:22 57:24 58:3 58:19,23 59:14,19 61:10,18 67:24 70:19,20 71:24 72:13 73:8,11 74:4 83:1,14 87:15 104:6 106:3 107:24 115:22 116:7 126:20 147:22 149:22 161:14 172:18 173:7,11 187:10 187:18,23 189:3 195:14 196:22 197:14 199:4
particular 29:2,8 38:6,8 44:1,9 106:15 143:15 157:24 160:24 162:18 parties 8:18,23 parts 186:19 200:9 party 41:21,24,25 43:10,16,23 44:2,8 44:15,18,25 45:1,3 48:15 62:20 63:5 63:5,8,12 66:24 67:10,17 74:22 77:24 78:4,21 79:2,5,9,11 81:23 92:24 93:11,15,16	patent 3:14,15,17 9:2,3 17:16,17 38:16,19 74:23 99:19 100:2,5,22 109:25 110:5 112:21 113:2,2,12 124:14,17,22 126:18 194:20,20 202:7,24 204:23 204:23 patents 9:2 13:16 13:19,24 14:15,18 15:6 16:9,12,16 17:3,13,23 49:22 49:25 99:25 113:20 124:9 133:22 194:16 199:21 200:4,4,25 201:7 patio 28:10 59:18 pause 111:17 172:17,21,23 173:6,14,24 174:3 174:10,16 191:22 paused 173:20 pausing 191:18 196:20 pc 4:11 192:11,14 193:25 pdf 19:13 30:25 146:3,5 206:13 213:12 214:1 penalty 211:6 213:16 214:5		

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[autoplay - predefined]

autoplay 113:15 113:19 124:23 125:3 147:17,20 149:2,7,16,20,21 195:2 196:18 207:14	122:14,20 123:12 123:18 128:15 152:3 154:15,25 155:19,21 156:1,8 156:11,19,25 161:18 166:19 167:20,23 172:11 173:3,9,17,20 174:9,11 198:15 202:20 206:23 207:9	please 7:3,16,19 8:1 9:16,21 10:24 11:9 12:12 18:17 18:25 26:23 28:1 30:5 32:9 34:6,6 38:4 44:5 45:6 48:1 49:9 62:11 69:19,25 84:5 99:13 107:17 108:13 113:5 115:1 124:5 127:8 145:19 149:13 151:13 152:22 155:2,10 157:7 158:5,20 159:4,22 165:2 166:1 172:8 172:9 182:6 186:13,24 190:15 190:25 191:25 192:7 195:9 201:3 203:21 208:21 210:3	portion 125:14,17 155:17 163:19 164:5 portions 12:6,16 12:17,18 14:24 posed 129:7 position 125:9 possession 38:17 possibilities 71:2 possible 35:9,13 36:7 72:20 110:11 114:1,13,21 115:5 116:3,16,17,18 118:19 127:4 145:24 165:10 166:17,18,22 167:6 181:7 183:11 200:21 possibly 22:22 post 128:9 130:7 131:20 132:1 134:4,4,5 136:10 136:15 138:6 140:12 posts 136:3 143:19 143:22 potentially 42:23 89:18 105:24 powerful 62:23 63:18 practice 13:23 16:2,6,7 204:14 205:1,14 206:4 pre 159:14 precisely 179:1 predecessor 175:16 predefined 64:6 81:22 82:10 83:23 138:20 139:15 207:8
played 29:5,6 55:24 151:18 player 27:13 51:4 68:7,15 75:4,8 85:1,4,6 86:17,17 86:18,24 90:1,10 90:14 102:13 107:8,18 109:8 115:11,19 119:24 121:16 122:1 123:5 154:1 158:2 158:8,14,19,19,21 159:1,6,10,16,17 159:20 165:22 167:21 182:4 187:21 196:25 197:1,2,3,5,9,12 197:13,21,23 198:3,6,12,14,20 198:22 199:1,4,7,9 202:23,25 206:21 207:3,6,11,12 player's 207:1 players 23:17 27:12 67:1,11 68:4,12 84:18 85:3 87:2,6,10 88:21 89:3,22 92:22 101:4,15,17 102:4,5,17 103:1,2 103:6 105:11 106:22 107:3,24 108:2 109:2 119:7 120:18 121:15,16 121:16,23 122:8	playing 24:15 26:8 26:15 40:15 42:3 44:13 50:22 51:5 51:7,8,10,11,24,25 52:6,9,13,13 53:17 54:7,8 55:2,7,8,14 55:15 56:2,7,8,19 56:20 57:4,8,18,19 57:25 58:17 59:3 59:14,15 60:12,13 61:5,7,19 70:4,10 70:18,25 71:21,25 73:9,18,25 74:1,3 82:25 83:3,11 87:15 88:15 94:14 95:13 104:23,25 116:8 126:20 148:3 161:17 168:16 172:17 173:6 187:24 188:9,14 196:14 196:15 197:10,12 197:18,21 198:5 198:13,17 199:1,5 199:8,9,12,14 playlist 29:5,6 40:9 132:19 133:3 133:7,13 playlists 129:1 132:15	plus 90:21,23 91:11,15,15,18,23 92:7,19 94:2,2 118:2,2,3,14,14,14 166:14 169:10 point 18:13,14 26:6,9,22,23 42:14 43:22 47:8 54:4 81:8 115:2 139:23 142:3 163:17 180:15,23 188:13 194:5 196:18 pointing 165:6 points 9:25 143:16 209:8 pop 18:15 19:15 124:7 135:19 populated 159:14	

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[preference - questioning]

preference 73:12	problem 41:21	143:1,16 175:4,20	providing 176:23
preferred 188:18	77:12 119:24	175:21,23,23,25	177:9 183:15,22
preparation 19:9	120:20 122:24	176:3,5,7,14,17,20	provisional 205:7
prepare 14:23	128:16	177:15,24 178:11	public 124:9
15:3,20 16:21	problems 14:11	178:13,18,19,21	purpose 175:19
17:10,24	76:22	178:22,23 179:10	pursuant 1:16
preparing 62:7	procedure 213:19	180:6,14 182:11	pushing 85:12
104:10	213:20	184:14 189:2,17	put 23:16,20 25:24
present 2:21	proceed 7:11	190:4,5,7 199:22	35:6 42:16 43:4
preset 128:20	proceeding 138:2	200:24 201:6,12	58:4 59:2 65:16
presets 5:7 129:7	proceedings	201:14,18,21	65:18 67:18 73:10
press 27:2 155:19	210:11 212:14,17	209:11,12,14,15	81:21
172:17 173:6	process 34:13 65:1	209:18	putting 44:13
pressed 27:5,10	65:10 88:22	profile 31:14,25	q
93:16 167:5,8	122:20	32:4,12,18,20,21	quality 127:16
173:18 174:10	processing 86:20	32:24 33:6,10	question 9:21 10:2
presses 162:17	86:23	profiles 33:2,22	10:8,9 12:12 17:4
pressing 67:23	processor 123:13	34:9 39:19,23	25:16 32:9 34:4
161:1	processors 207:2	40:14 80:9,20,23	36:19 38:3 40:20
presumably 38:23	product 33:13	80:25 81:17	44:4 47:5 49:8
175:21 179:24	45:20 52:18 66:4	program 206:22	51:21 59:24 67:8
180:22	66:7 67:4,18	programable	78:15,18,19 84:5
previous 139:20	89:13 97:16,19,25	189:15	85:15 90:9 100:17
previously 5:3	98:4 117:8 121:9	project 20:9,11	100:18,18 103:21
65:20 166:7	143:7 144:1	22:14	107:17 108:12
primarily 169:18	145:10,15,24	pronouncing	109:5,19 113:5
principle 117:12	147:7 157:25	186:6	114:25 115:4
120:22	158:23 174:8	pronto 184:13,18	122:18 149:12
principles 190:20	180:3 181:4,15,23	184:19 185:3,8	151:13,17 156:16
printout 128:1	182:21 184:10,18	property 3:18	156:18 165:16,19
prior 8:15,17 9:6	185:3,8,15 188:18	proposal 132:22	167:15 169:25
65:18 87:9 90:6	188:22,24 189:14	proposing 132:9	172:24 174:1,2
112:12,18 113:9	204:3,6	137:6	178:1 182:6,17
113:11,15 114:1	product's 145:7	prosecution 13:19	184:4 195:9
120:24 121:9,22	products 4:5 47:8	14:16	196:13 197:24
127:3 169:20	47:15 66:21 69:16	protective 1:16	199:1,15 201:2
202:10 206:19	84:1,2,9,17 97:11	210:2	203:10,21,23
212:6	97:14,22 103:14	provide 181:12	206:8
privileged 13:15	103:25 111:16	189:12	questioning
13:22	120:24 122:15	provided 213:19	109:17
	141:17 142:1,3,5	214:8	

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[questions - refresh]

questions 10:1 109:14 112:8,25 145:21 169:18 170:5 186:18,23 209:25 queue 71:9 73:20 74:4 83:1,3,3 queued 73:8 queues 72:12 82:22 quick 98:21 152:20 171:19 quickly 9:11 132:2 164:4 202:2 quinn 2:16 6:24 quinnemanuel.c... 2:19 213:2 quite 30:21 138:17 quote 102:11 136:16 quoting 163:16	readable 206:24 reading 33:2 34:11 107:1 109:21 110:23 143:5 163:12 213:23 214:9 reads 14:8 15:24 28:15 32:12 33:2 39:18 62:15 66:10 70:22,24 71:8 72:10,17 73:15 101:3 102:1,23 106:20 125:17 146:20,24 148:7 149:2 150:24 154:22 155:17 161:9 163:5 176:22 206:18 ready 70:19 73:8 74:3 145:20 real 182:24 183:5 183:7 realize 20:2 really 23:24 58:20 112:25 118:1 136:18 reason 8:10 9:5 75:2 171:8 215:6 215:9,12,15,18,21 recall 15:7,9,15 28:23 32:25 38:20 38:20,24 49:16,20 49:24 52:19,23 53:1,5,11,21 54:2 54:4 55:22 56:24 76:10 81:18 95:8 97:21,25 98:3,4,15 100:5 102:7 117:8 141:16 145:23 146:1 151:22 157:3 164:18,22	165:21 166:13 180:19 182:20 183:7,9,11 184:23 186:12 191:16 193:4 194:22,23 194:24 195:12 199:16,16 206:11 207:25 receive 87:3 122:20 123:5,8,10 207:3 received 87:7 receiver 147:15 recess 39:6 74:14 98:24 112:2 153:1 171:23 194:9 recognize 30:20 100:2 175:9 192:21 recollect 168:2 200:20 recollection 57:11 72:6 124:15 148:14 149:6,15 150:10,13 151:7,9 151:18 162:11 163:20 184:19 185:6,12,18 190:1 190:8 191:20 201:17,19,23 reconstituted 24:19 121:20 record 6:6,22 7:17 7:20 8:3 14:6,25 39:5,9 62:14 74:13,17 98:23 99:2 111:22 112:1 112:5 152:24 153:4 170:13 171:2,11,18,20,22 172:1,2 192:24	194:8,12 208:24 210:5 recorded 6:7 recording 147:16 red 193:16,19 reduce 204:12,13 204:25 205:13 reduced 212:12 reduction 13:23 16:2,5,7 206:3 refer 31:24 35:14 82:6 94:21 164:8 168:8 206:3 reference 52:5 66:7 referenced 213:6 references 31:16 referred 45:21 82:24 131:11 205:19 referring 17:5,24 18:24 19:9 31:25 32:19 33:7 36:17 38:6 79:7 80:1 82:23 89:15 101:10 112:24 133:15 134:25 139:22 142:15 154:17,19 163:2,4 187:15 196:21 refers 33:13,16 42:14 45:19 refinement 205:15 refresh 18:11,14 124:6 148:14 149:6,15 150:10 150:13 151:7,9,17 151:21 162:11 163:20 205:21 206:5
r			
r 3:13 7:22 215:3,3 r&s 214:1,9 rack 181:15 radio 40:7 73:6,25 83:11,14 129:1 randolph 2:11 rapid 180:21 reach 194:4 reached 66:15 read 12:8 14:6,25 32:5 62:13 68:24 100:21,25 101:20 103:16 107:12 108:20 109:24,25 124:19,19,21 132:2,6 143:19,22 147:10 183:14 186:13,15,21,22 186:24 203:19			

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[regard - right]

regard 56:14 208:18	remotely 118:21	requested 81:1 170:20 214:1,9,10	retained 210:9
regarding 13:22 16:1 132:21 203:16 207:20	remove 117:9	requesting 81:16 132:9 139:6 140:2 141:3	return 213:17 214:6
regardless 54:7 95:14 110:19 121:18	removed 115:19 116:23 117:13 120:19,22	required 100:10 212:18	reuse 127:3
regular 47:23	removing 117:2	requirements 102:25	review 15:3 16:25 142:23 143:8,14 208:6,17 212:17 213:8,10,13 214:2
relate 39:22 157:21	rename 150:11	requiring 126:7	reviewed 12:10 15:1 16:23 17:9 17:13,24 19:2,9,18 30:13 32:7 62:6 69:1 78:14 100:24 103:19 132:4 133:23 186:14,25 187:2 191:1 192:23 200:19 203:20 208:8 209:6
related 6:14 40:14 169:20 201:21 202:7	renamed 193:12	reread 78:11	reviewing 208:23
relates 100:5 109:12 125:9,11 170:1 194:1	renaming 159:6	reserve 210:3	reviews 208:10
relating 23:9 173:23 175:21	rendered 91:16 158:3	reserved 172:5	rich 176:24 177:10 183:16,22
relationship 83:17 193:17,25	repeat 32:8 34:6 49:8 90:8 108:12 113:5 165:16 167:14 182:5 195:8 201:2	resist 138:4	right 10:13 11:5,7 17:14 19:14 21:21 24:22 26:16 31:3 39:13 44:22 47:21 52:14 53:23 55:9 57:9 59:1 61:9 62:7 63:9 66:4 69:16 72:2 74:25 75:4,23,25 78:5 80:11 82:14 84:18 87:3 88:2 91:12 92:11,18 93:1 96:7,24 97:1 100:13 101:18 108:9,16 120:14 123:13 128:8 132:12 134:22 140:6 148:6
relatively 9:11	repetitive 130:13	respect 12:16 13:16,18,20,24 14:24 15:23 16:22 16:25 17:7 25:19 68:14 80:23 134:25 201:25 202:4,12,14	
released 142:1,1,2 213:21	rephrase 85:16 88:19	respond 10:2 137:14	
relevant 202:10 203:8	replacement 184:23	responded 208:12	
relink 77:8	reported 1:25	response 13:15 202:3	
remain 173:10	reporter 6:19 7:3 7:7 9:12 11:17 17:21 18:6 22:3 99:16 111:21 124:3 127:7 135:23 144:23 153:10 170:10 174:25 185:23 190:14 192:6 200:15 209:21 212:24	responses 3:12 4:19 9:17 205:20	
remember 8:22 15:12 21:11 38:22 81:11 84:20 97:17 121:16 123:23 147:6 164:14 193:5 204:25 205:17	responsibilities 76:7	responsibility 76:5	
remembering 133:17	represent 12:25 13:7	responsible 69:7	
remote 176:24 177:10 181:18 183:16,22 184:20 184:24 189:15	representing 23:17	rest 77:5 136:20 208:2	
	represents 23:24	restart 173:11	
	request 132:22 141:10	restate 114:25	
		restore 77:7	
		result 95:19 131:16 198:8	

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[right - scene]

152:13 155:16 157:19 159:17 160:10,16 163:9 164:6 165:13 167:18,23 168:23 169:15 174:16 176:10 177:17,25 180:7,11 195:8 209:22 rincon 175:15 ringer 9:9 rob 190:20 192:14 robert 1:19 2:1 3:4 6:8,8 7:6,18 99:20 175:6 210:6,7 211:5,14 213:5 215:2 role 81:7 rom 154:2 room 10:12 23:23 24:1,3,4,5 27:16 27:17 28:9,9,25 29:2,7,14,17 31:13 31:14,17,19 32:1,3 32:12,13,17,22,24 33:21 34:8 40:13 40:15 41:7,8 42:17,19,23,24 43:2,3,5 45:11 48:3,10,13 50:8,9 59:12,13,20 68:2 71:13 73:25 83:13 89:17,18 90:20,21 90:23 92:7 94:12 94:14,25 103:7 104:5,13,18 105:12 108:4,8,15 108:19,23 114:15 115:15 120:17 162:8 166:7,12,14 166:15 169:10,11	185:4 rooms 23:4,16,17 23:21 24:6,13,20 25:24 27:11 28:11 28:16,24 29:11,23 30:6 31:9 33:7 40:15 42:1,4,11 46:12 50:8 59:2 59:17 64:4 65:10 65:11 71:22,25 73:3,4,7,10 74:2 75:14 82:25 83:22 90:19 94:1,4,13 95:22,23 110:4 168:3 185:4 187:18 roughly 28:10 38:22 45:23 102:22 rule 100:9 rules 9:10 214:8 run 18:25 33:17 85:23 192:22 s s 3:8 4:3 5:5 161:11 215:3 santa 2:2 6:1 7:22 8:6 satisfy 102:24 save 65:17,22 80:24 81:17 96:2 121:7 128:14 129:14,20,22,22 129:22,23 130:3,4 130:15,25 131:10 132:14 137:21 196:10 199:25 200:5 saved 24:17 29:15 29:18 33:8 35:18 64:7 68:3,7,11,15	68:19,21 69:3 79:22 83:23 89:20 92:6 96:7,14,14 102:3,12,16 120:18 121:15,20 132:16,19 133:2 133:24 139:11 140:3 194:21 195:21,23,25 196:21 197:15,23 199:3 200:8 saving 121:19 129:17 133:2 saw 94:24 132:13 139:20 183:9 saying 28:7 32:22 43:18,21 54:11 79:7,25 108:4 110:8,16,16,21 111:6 116:7 130:21 141:25 144:1 163:19 says 14:21 16:19 31:12 41:20 43:10 43:11,12,12,13 44:20,20 45:2 48:4,7,9,15,15,16 61:25,25 70:2,9 77:19,24 102:15 105:9 109:2 126:12 128:4,11 147:14 150:1 151:1 153:24 154:14,25 159:7 161:5 162:6,7,8 163:1 164:6,6 165:5 168:12 169:9,9 172:10,14 173:8 187:7,9,22 188:3 193:10,17 205:6	scan 28:1 68:22 145:19 175:10 190:25 scanned 187:3 scenario 54:21 55:12 56:4 57:2 57:17 58:21 78:7 79:25 95:10 104:4 104:7,10,25 105:21 106:15 121:22 174:4 197:13 scenarios 108:22 135:6 186:10 188:17,21,22 scene 18:23 23:6 25:8,11,18,20 26:7 26:14,18,24 27:4,6 27:12 28:4,13,22 28:24 29:2,3,9,13 29:24 30:7 31:25 32:21 34:14,19,20 34:25 35:5,10,10 35:17,20,21 36:3 36:14,17,21,23 37:5,13 40:19,19 40:21,24 41:9,11 41:14,16 59:8,11 59:21,23,25 60:2 60:14 61:1,8,10,13 61:15,20 62:16,22 63:8,12,16,23 65:14 67:3,6,13,15 68:3,6,8,15,16 70:5,16 71:11,14 72:21,22 74:24 75:3,7,15,15,16,17 78:9,22 79:1,17,23 83:18,22 84:1,9,17 87:9 98:20 114:10 121:6,7,14,17,19
---	---	---	---

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[scene - seen]

121:20,20 133:7	67:16 69:10 72:4	screens 42:2	99:22 100:16
133:24 137:20	76:9 81:10 83:19	139:20	101:8,23 102:6,22
197:2,3,15,17,22	84:3,22 85:8,19	screenshot 159:24	103:10 106:25
197:24 198:4,4,5,5	86:4,8,13,21 87:5	screenshots 150:5	107:7 124:8,12
198:6,7,11,15,16	88:3,10 89:6 90:4	scroll 12:1 146:12	125:16 126:9
199:2,3,8,8,10,12	90:17 93:14,22	scrolling 146:13	127:9,10 128:8
207:7,15	94:8,17 95:17,25	se 111:10,14	129:5,6,8 130:18
scenes 15:18 20:9	96:9,20 97:9 98:6	search 128:12	131:22,25 134:7
20:11,22 21:1,7,14	100:7,9 103:15	second 4:19 8:23	134:13 135:19
21:17 22:15 23:1	104:2,17 105:19	22:19 63:4 66:10	136:13 137:3
23:9 29:14,17	107:11,21 108:11	78:3 104:22	138:21 139:3,4
31:10,19 32:1	109:11,17 110:14	116:19 125:14	140:25 141:25
33:21 34:8 48:19	111:1 112:8 116:5	130:6 131:19	143:25 145:5
58:25 59:6 60:8	116:22 117:6,21	144:13,17 153:14	146:16 147:4,18
61:25 63:6 64:5	118:23 119:10,20	153:24 155:16	147:21,23 148:4
66:3 68:1,11,19,21	122:11 123:4,21	173:8 187:22	148:12 149:1,4
69:3,8,13,16 82:3	124:25 126:15	193:10 198:16	150:1,8 151:5
82:6,11 88:20	128:3 129:13,19	207:11	153:15 154:4,16
89:4,8,11,12,24	130:2,22 132:10	seconds 155:20	154:21 155:7,23
95:7 96:24 114:9	132:24 134:18	195:6	158:15 159:12
120:15 131:4	135:4,15 136:6	section 78:12	160:2,7 161:3,21
132:21 133:16	137:8,18 139:9,18	110:3 155:13	162:2,9,25 163:6,7
134:12,16,22,25	140:8 141:5,13,20	158:7 161:5	163:13 165:8
135:13 137:14	142:6,13 143:3,9	170:11 172:9	172:12,19 175:7
141:9 197:7	143:18,24 147:8	187:6 193:8,24	177:2,7,13,24
198:11,14,21,23	148:19 149:11	207:19	181:4,19,20
204:18,19 205:3	150:17 151:12	see 11:10,12,19,24	182:22 183:2,4,7
schedule 213:10	152:6,15 156:3,23	12:2,3,4 14:21	183:19 184:15,16
schulert 15:11	157:14,23 159:18	16:19 17:16 18:8	186:4 187:13
75:23 76:2,17	160:12,21 162:15	18:21 19:6,17	188:1,6 190:17,22
77:12 80:5,16	163:10,24 164:10	20:17 22:7 25:5	191:11 192:16
schulert's 76:7	164:17,24 165:15	28:18 31:24 32:15	193:14 200:18
scientist 122:13	166:11,21 167:2	33:4 39:20 41:20	207:17,18
scope 14:9 26:11	167:13,25 168:25	43:14 44:22 45:12	seeing 163:11
27:8 36:5,25	169:17,20 170:3,9	45:16 48:5,11,17	200:20
37:15 39:25 46:15	170:16,23 171:14	62:2,24 66:16	seeking 169:19
47:10,17 50:16	screen 23:3 27:1,3	68:23 70:6,13	seen 13:7 94:23
51:2,16 52:3 53:3	27:6,11 28:3	71:4,17 72:25	124:14 127:25
53:14,25 54:10	33:10 59:9 146:16	75:20 76:19 77:10	141:21 145:17,22
55:11 56:16 57:5	147:25 148:8	77:25 80:6,10,12	145:25 184:10
58:2,14 60:10,24	163:3 181:16	80:21 81:3 82:1	200:17

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[select - sonos]

select 158:20,23 159:1,8,14 167:10 167:20,22 168:3 168:15 169:10 selected 147:20 160:18 163:9 167:7 selecting 150:5,6 161:19 selection 130:17 131:1 188:5 selling 142:3,4 send 11:5 sense 9:19 92:5,19 176:4 188:23 sent 15:5 79:3 180:20 181:1 187:20 sentence 63:4 70:9 70:24 81:5,19 82:8,18 101:3,20 101:25 102:11 106:20 107:13 109:21 125:15 173:8 183:13 184:12 sentences 173:2 separate 77:21 79:25 95:22 96:6 96:18 106:1 118:7 157:2 166:15 171:15 173:23 separately 96:13 100:10 109:16 116:15 117:17 119:7 169:23 170:21 185:4 september 204:15 205:2,12 206:19 served 202:4	server 3:20 145:4 147:3 152:9,11,17 session 10:22 133:21 set 4:20 23:15,25 41:3 63:13 64:5 89:12,15 115:21 132:16 136:3 166:12 setting 62:20 63:8 130:12 settings 123:23 193:12 setup 128:18 147:16,17 154:2 155:5 setups 97:3,4 share 10:17,22 11:10 18:9 114:23 shared 15:2 16:24 115:6 shea 2:10 7:1 short 39:2 74:10 shortening 33:14 shorthand 212:11 212:24 shortly 135:20 171:16 show 13:4 21:16 31:9 90:19,21 102:11 166:8,14 180:14 showed 181:2 showing 28:4 88:22 152:18 169:14 shown 27:24 92:20 161:1 164:19 174:12 shows 23:3 30:25 30:25 205:13	side 28:14 69:8 146:13 165:6 sides 172:5 sign 213:16 214:5 signature 31:5 45:11 210:3 212:23 213:21,23 213:23 214:9 signed 138:7 signs 134:6 silent 168:18 similar 62:19 63:4 64:18 134:25 198:2 simple 72:20 147:22 simplest 71:14 75:14 simply 70:12 simultaneously 148:11 149:3,8,17 single 28:22 42:19 46:6 60:1,2 62:19 87:16 115:11 122:4 130:16 131:1 138:19 139:14 207:23 sinuswave 131:21 131:25 132:9,22 sinuswave's 134:4 sitting 98:2,14 183:6 193:5 situation 60:12 71:19 77:14 82:24 94:12 117:16 129:21 197:20 situations 55:13 144:8,9 six 138:16 208:25 sketchbook 4:13 21:10,13 22:9,12	22:13,16 29:21 30:1,3,6,9,11 37:22 38:1,2,5,7,8 38:9,13,15,18 49:4 49:12,15 sketched 28:10 37:25 sketches 21:17 23:8 skip 101:25 skipped 70:22 slightly 56:4 slim 183:2 slimdevices 179:15 182:19 small 181:15 smiley 177:1,12 183:18 smith 2:10 7:1 smoke 209:17 software 10:25 69:15 76:11 86:3 160:1 167:1 solution 71:15 solutions 6:18,20 181:14 210:10 213:7 solve 144:9 somebody 197:21 somewhat 145:13 sonos 1:7,9 2:9 3:11,12,21,22,23 4:6,8,10,12,14,15 4:16,18,19 5:7,8 6:9,11 7:1 8:4,20 8:25 11:23 13:1 13:13,14,20 18:20 19:6 22:6 47:7 50:1,6,12 51:5 53:23 54:4 55:8 55:20 56:12 57:23
---	---	---	--

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[sonos - standalone]

58:9 61:23,24 63:22,25 66:11,20 67:9 72:1 73:13 74:6 75:19 76:3 76:11 81:7,12 84:2,9,17 88:1 92:23 97:6,12 103:13,25 120:24 127:16,16,19,24 127:25 128:2,4 136:4,8 141:16,17 142:10,23 143:14 143:16 144:4 153:13,20,25 154:1,2 159:1,25 164:14,22 172:16 173:5 174:22 175:16,18 176:9 176:17,19 177:16 178:8,22 179:4,11 179:17,23 181:3 183:23 184:7 188:18 192:25 194:20,24 195:12 195:24 196:4,23 199:22 201:20 202:4,13,15,22 204:13,25 205:13 205:19,24 206:20 206:21,23 207:1,3 207:6,9,11,12 210:8 213:4 215:1 sonos's 202:19 sorry 13:6 19:23 31:17 32:8 36:16 37:7 55:18 60:4 69:23 78:16 84:4 93:25 103:20 104:5,7,19 111:16 117:10 122:23,23 131:23 140:4	146:8 154:17,20 156:22 163:11 167:14 169:5 173:25 177:3 208:9 sort 19:12 22:25 26:21 119:24 141:17 177:19 205:11 sound 158:2 191:13 sounded 143:4 sounds 100:4 space 4:5 46:6,7 64:11 175:5,21 176:8,20 177:16 177:21 178:14,16 180:6,14 speak 15:19 99:9 speaker 23:25 24:2,3,4 27:14,15 27:16,16 42:15,19 43:2,4 49:1,5,13 49:17 50:5,13,24 51:6,10,12,14,23 51:25 52:8,13,24 53:17 54:5,6,12 56:5,7,13,14 60:4 87:23 95:15 98:8 111:9,12,13 112:10,11,14,18 113:4,9,15 116:18 139:7 157:19,20 168:4,23 182:8 194:25 195:1,2,13 195:14,15,18 196:14,16,17 199:13 201:14 speakers 23:25 27:19 42:16,17,22 47:20 52:5,11,25	54:13,18 56:6,7,13 56:22 57:3 58:16 61:17 67:24 68:12 70:18 77:15 79:4 79:6 85:4 87:23 95:13,15 96:5,6 97:2 98:12 104:24 105:1,22,23,24 115:21 116:11 128:24 157:4,25 158:1 164:1 165:25 167:6 185:9,10,14 187:19 194:25 195:13 196:15,22 198:18 speaking 92:1 133:9,13 170:18 176:2 spec 15:6,17 17:3 35:4 94:21,23,24 special 132:15 184:7 specific 21:4,4,5 38:3 61:10 86:15 87:18 96:11 122:18 143:11 203:12 204:3 specifically 93:25 114:19 specification 4:15 15:12,14,15 17:6 18:23 20:7,8,10 61:24 190:20 192:12 205:25 207:24 209:6 specifications 4:9 4:11 17:10 209:8 specified 36:22 199:16	specs 94:22 speculate 119:23 speculating 120:21 133:1 spell 54:21 spoke 16:23 square 32:11 squeezbox 179:15 182:15,18,22 183:4,9 srv2-00026625 4:14 srv2-00026839 4:16 srv2-00026888 4:18 srv2-00032289 4:6 srv2-00032312 3:21 srv2-00032475 4:10 srv2-00032575 4:8 srv2-00033494 4:12 ss 211:1 212:2 stage 25:6,24 stamped 3:20 4:5 4:7,9,11,13,15,17 standalone 48:23 48:25 49:5,13,17 50:5,13,18,24 51:3 51:6,10,12,13,23 51:24 52:8,12,24 53:17 54:5,6,12,25 56:5 60:19 87:11 87:15,21,22 93:8 94:13 194:25 195:1,2,13,14,15 195:18,19 196:14 196:16,17,18 197:1,4,6,9,21,22
---	---	--	---

[standalone - system]

<p>198:3,6 199:2,4,13 standing 37:1,20 49:25 50:10 52:16 53:4 54:1 166:13 168:1 stands 71:6 start 26:8,15 30:18 76:14 79:24 149:20 153:7 156:14 170:11 started 70:5 142:21 170:16,19 starting 149:2 208:3 starts 202:9 state 6:21 7:16,19 8:1 211:1 212:1,5 212:24 213:9,12 stated 75:11 145:24 statement 100:8 states 1:1 6:12 149:19 152:7 station 40:7 73:6 73:25 83:12,14 stations 129:2 status 147:1 stay 79:12 195:19 step 70:23 78:20 steps 130:16 131:1 stereo 47:19 stipulation 213:20 stop 53:16 57:4,8 71:12,24 149:20 172:15 173:4 174:11 197:10 stopped 61:19 stopping 149:2 store 87:2 88:21 132:14</p>	<p>stored 75:3,8,10 75:13 120:8 132:16 206:22 stream 47:22 50:19 122:17 streamed 98:7 streaming 97:11 97:14,22 152:12 152:18 179:20 streamium 97:16 184:14 185:15 streams 152:17 street 2:11 8:5,6 strike 10:15 15:12 21:22 31:17 41:12 43:6 47:6 59:23 60:5 62:9 65:25 67:7 75:6 76:6 88:20 90:13 91:3 92:22 93:5 111:4 111:8 113:23 120:5 121:6 122:5 133:5 136:10 137:13 140:4 150:12 151:8 166:17 183:2 194:23 204:9,12 string 3:16 4:17 structure 133:1 structures 132:17 studied 110:5 subject 12:25 13:13 14:14 170:1 186:10 205:21 subjective 178:1 subsequent 160:23 subsequently 121:25 197:24 substance 99:10 suggest 122:15 123:9 125:4</p>	<p>suggested 128:13 suggesting 134:16 suggestion 129:11 suit 16:9,12,16 suite 2:11,17 sullivan 2:10,16 6:24,25 summer 128:22,23 summons 99:24 sunday 43:12 super 205:6 supplement 100:12 supplemental 4:19 170:21 suppose 35:12 92:6 102:5 150:12 supposed 127:3 sure 9:23 10:25 12:9,14,19 19:1 25:15 39:3 44:6 47:2 49:11,19 78:12 79:24 84:7 98:22 109:20,23 113:6,7 126:18 139:25 151:16 167:18 178:10 186:21 194:6 195:11 208:5,17 surprise 134:19 135:2,8,12,16 surprises 135:17 surprising 134:15 svg2-00026625 22:6 svg2-00026839 18:20 61:23 svg2-00026888 19:6 75:19 svg2-00032289 174:22</p>	<p>svg2-00033494 192:25 swear 7:3 switch 10:20 157:17 sworn 7:7 8:8 212:8 synced 116:6 synchronized 50:20 88:15 94:5 94:6 101:6,22 115:11 149:22 synchronous 113:14,19 207:13 synchronously 52:14 55:3 56:9 95:14 101:18 188:10 synchrony 24:15 26:1,15 50:20,23 58:17,20,23 59:3 59:14,15,19 61:5,7 67:25 70:19 101:19 107:25 115:22 125:4 126:1,4,13 synonymously 32:21 98:19 system 3:22,23 27:7 40:10,11 50:1,6,12 52:7 55:23 63:22,25 64:15,17,24 68:10 68:18 76:23 85:3 85:14,24,25 88:1 89:20 91:1 92:23 119:6 126:3,12 135:10 136:21 141:11 147:17 148:15 149:9 152:11 153:13</p>
--	---	---	--

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[system - three]

154:2 158:8 172:16 173:5 184:22 185:1,2 196:23 197:15 198:11 202:16 204:4 systems 33:18 189:12	technical 14:12 23:11 43:24 85:1 86:22 93:23 118:11,16 119:24 120:20 123:15 126:17 144:12 181:25 technically 88:25 118:16 119:12 120:3 156:24 technology 14:14 86:9,16 135:1 tee 57:14 tell 8:8 22:13 79:4 122:13 180:5 temporarily 46:21 ten 195:6 tense 110:24 term 41:25 79:6 83:4 87:21 terminals 157:20 157:20 terms 23:6 41:15 42:5 75:12,12 85:2 118:15 141:14 159:1 test 206:6 tested 201:12,18 testified 7:8 168:20 testify 8:10 12:16 13:14,18,21,25 14:23 15:4 16:21 212:8 testimony 9:6 15:20 25:1 54:23 100:11 125:9 126:16 169:21,23 170:14,15,16,17 170:19 171:7,16 172:3,4,4 200:7	210:6 211:7 text 163:3 thank 7:2,10,12,23 19:17 34:1 74:20 99:5 110:2 154:24 187:4 209:2,23 210:4 theboyg 136:15 137:5,9,13,19 138:3 theboyg's 137:15 theme 98:18 theory 42:18 43:1 43:4 thermostat 209:15 209:17 thing 10:8 23:2 44:14 59:1,6 122:3 144:11 182:2 things 11:3 77:7 209:4 think 8:21 21:16 22:18,20,22 24:24 26:19 31:23 32:19 32:20,22 33:7 34:22 37:2,4,8,11 37:20 38:11 41:15 42:17 44:12 45:19 45:23 46:4 53:15 53:18 54:19 56:21 58:11,22 61:16 63:11 64:12,21 65:2 67:5,22 70:20 78:23 79:16 79:18 81:23 87:22 87:25 95:12 104:1 104:3 106:11,13 108:4,18 110:4,7 110:15,20 111:2 112:14 117:7,12	119:1 121:3 122:17 123:12 125:2 127:17 129:22 130:14 132:13 133:9,12 137:19 138:10 139:19 141:14 142:2,3,19 144:6 145:14 146:6 151:23 160:22 162:16 167:19 170:14 171:4,6,13 171:16 176:3,5,12 176:18 178:1,6,21 178:25 179:3,10 179:15,20 180:21 188:20 195:20 196:7 198:10 205:5 209:5 thinking 58:21 65:10 97:15 151:22 third 22:19,24 76:21 78:4 80:18 131:23 138:5 169:8 176:22 177:5 183:12 thirds 163:4 172:9 thought 30:15 31:18 36:17 58:22 114:12 thread 4:7 15:5,7 15:8 17:6,9 19:8 76:15 78:24 80:2 136:11 threads 17:2 three 48:14 53:15 53:21 73:4,5 106:1,12 138:14 150:4 155:20 166:19,23 167:20
t			
t 1:14 3:8 4:3 5:5 128:10 215:3,3 table 154:12 take 10:6,7,10 30:8 39:2 65:19 73:19 74:10 83:2 98:21 100:18 124:16 125:3 144:17 152:20 171:19 192:22 194:5,6 200:11 taken 2:1 6:10 10:13 25:6 60:11 212:10 takes 83:3 talk 9:14 75:12 138:3 152:8 talked 170:2 204:18 talking 22:10 52:20 58:15 59:1 60:4,6 61:11 94:18 101:14 110:3 112:21,22 118:25 120:11 tbd 71:3,6 193:17 team 76:12 127:17 181:4 teams 142:23 143:7 teardowns 201:20			

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[thumbs - two]

thumbs 9:18,18	timeframe 51:20	17:10,11,14,14	trying 21:5 25:16
time 10:6 21:5	51:22 52:20 75:25	100:15 125:10	85:15 167:18
24:16,18 28:17	97:7,23 98:11	171:6 206:9	191:16 205:11
29:1,3,12 38:10	101:11 103:25	topics 12:2,3 14:5	turn 11:9 19:22
39:5,9 40:4,11,12	114:12,21 115:5,9	30:12 169:21	41:18 45:5 47:25
40:16 41:6 42:3	115:25 117:22,25	170:23 171:13	61:21 102:19
44:15 52:4,7 53:8	118:19 141:18,24	total 210:8	106:17 131:19
53:23 55:20 63:22	142:2,17 145:11	touch 161:19	138:5 148:24
63:24 64:1,6,22	164:15 165:22,25	173:10	149:24 150:22
65:20 66:14,24	166:18 204:21	track 73:6,6	154:11 155:2,9
67:22 68:11,17	timer 147:16	transcribe 100:10	157:7 161:23
70:21 72:2 74:13	times 8:15 64:23	transcribed	162:21 169:7
74:17,22 76:3,8,15	106:4,5,14 137:16	109:16 169:23	172:8,8 176:21
83:25 84:8,16	137:20	170:22	187:6 192:1
88:6 89:21 98:23	title 20:1 76:11	transcript 1:15	201:25 202:6
99:2 103:14 105:4	81:11 129:7	170:12 171:3	206:11
106:9,13 107:9,19	136:11 163:2	210:1 212:14,16	turned 40:10
108:21 110:12	178:13	212:18 213:6,8,10	turning 172:10
112:1,5 114:10,19	titled 43:8 61:24	213:13,13,21	173:2
114:23 115:12,22	135:20 190:19	214:2,2	turtle 97:19,20
116:7 117:8 118:7	today 8:7,11 17:25	transition 94:4	twice 8:17 9:10
120:9 127:17	19:10 34:11 37:1	116:18	two 9:1,6 23:4
133:20 137:2,21	49:25 52:16 53:4	transitory 122:3	28:8,22 29:3
139:14,24 141:11	54:1 62:7 94:23	206:24	31:15 32:1,14,23
142:11,14,15	98:2,14 154:7	treatment 178:2	32:25 33:21,21
143:12,19,20,22	166:13 168:2	treatments 177:20	34:8,8 42:5 44:19
143:23 145:25	183:6 209:23	trigger 41:16	46:7,7,8,17,20
146:9 152:24	today's 210:6	triggered 40:16	47:20 51:7,8
153:4 168:5,23	told 29:23	tron 182:14	54:18 55:13,22
169:6 171:9,22	tom 81:1,5,6,7,16	trouble 88:11	56:2 59:20 61:16
172:1 173:18	top 31:3 39:18	troubled 191:3	70:16 73:3,6 74:2
174:10 175:12	41:20 44:18 45:9	true 66:18 211:7	77:1,15,15,17 80:9
179:7,10 184:18	48:3 140:12	212:13	82:24 88:1 90:19
184:25 189:2	146:20 147:14	truth 8:8 212:8,8,9	91:10 92:20 101:4
193:2,23 194:8,12	149:1 150:1,24	truthfully 8:11	102:25 104:15
196:23 198:12	153:24	try 9:13,16 47:5	113:22,25 114:4
202:20 208:23	topic 12:3,3,7,7,17	54:21 59:24 88:19	115:6,11,25 116:1
209:3,23 212:11	12:17 13:15,20	111:23 127:3	118:7 128:15,21
213:10,18,24	14:2,8,20,21,24	144:9 165:19	138:14 147:25
214:7	15:4,20,23,23	188:22	156:11 162:4
	16:18,19,22 17:1,7		163:4 167:22

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[two - virtual]

169:11 172:9 173:2 188:12 197:6 198:11 type 125:25 130:14 159:9,16 182:2 193:6 types 120:2 typewriting 212:12 typically 85:20 typing 193:5	unfortunately 206:6 ungrouped 65:11 unique 180:1 unit 6:7 united 1:1 6:12 units 128:19,20 210:8 universal 184:20 unlink 64:13 77:8 136:17 139:6 169:15 unlinked 79:20 115:15 unlinking 130:12 131:15 137:1,20 138:12 unmute 155:18 156:1,8,19 157:4 164:1 uploading 144:14 upper 158:13 urquhart 2:16 6:24 use 13:23 16:10 24:18 27:1 33:19 35:18,20 37:5 44:1,9 58:19 64:3 65:20 87:21 101:19 136:19,20 146:12 151:3 153:25 159:15 169:22 174:15 194:15,17,18 196:4 199:21 200:24 201:6 209:11 useful 72:19 130:10 user 3:22,24 20:8 23:12,20 24:2,4,11	24:12 25:19,22 26:25 27:5,10 28:2,5,11,23 29:1 29:4 34:23 35:14 35:18,20,24 36:2 36:18,22,23 40:2 40:14 43:23 46:8 46:12 50:7 53:18 56:1 58:4,19,23 62:17 63:21,24 64:2,4,9,13,19 65:2,19 72:11 73:5,9,11 74:1,5 75:17 80:24 81:17 81:20 83:9,15,21 83:22 85:14,17,25 86:18 89:17,19 90:15,18 92:9,10 92:14,24 93:16 94:9 95:21 96:4 96:17 98:11 101:11 106:2 107:23 108:22 110:6,17 119:22 120:17,19,22 121:1,4,7,19,19,25 128:10 130:7,21 131:10,20,20 132:9,16 133:5,6 134:5,16,24 135:8 136:15 139:5 140:2,10,13,17 148:15 150:5,14 150:19 153:13,20 154:6,14 156:25 157:2,3,5 158:14 158:22,25 159:14 160:18,24 162:17 162:19 163:8,12 163:21,25 164:14 164:16 165:10,21	165:24 167:3,10 168:3 169:14 174:3,4,11 184:21 185:3,8,14 187:17 188:8 189:3 196:10 198:13,16 user's 26:22,23 84:13 140:5 users 65:17 131:4 135:9 138:2 142:10 153:21 utility 125:24 utilize 89:3
u			v
u.s. 74:23 99:19 ui 4:9,11,15 61:24 66:11 181:16 190:19 192:11 205:24 underlined 48:3 underlining 45:15 understand 8:7 9:21,23 12:15 14:4 34:23 39:12 54:23 58:20 78:13 88:13 106:7 109:7 109:19 111:6 129:10,25 137:5 139:5 141:2 142:24 153:21 172:24 173:25 198:25 understanding 42:24 98:17 103:12,23 113:18 115:2 126:11,18 127:18 130:20 132:8 196:3 199:20 200:3,23 201:5 203:2,24 understood 44:6 88:7 107:16			verbal 9:17 veritext 6:18,20 10:16 11:2 210:9 213:7,9,11 version 21:9 65:25 124:19 164:6,18 190:20 192:14 versions 121:9 versus 6:11 206:5 video 6:7 videographer 2:22 6:5,18 7:2,10 39:4 39:8 74:12,16 98:22 99:1 111:22 111:25 112:4 152:23 153:3 171:21,25 194:7 194:11 208:25 210:4 videotaped 1:18 vie 135:13 view 19:12 25:17 26:22,23 43:22 65:17 68:6 89:22 96:23 180:15 virtual 5:8 136:11 136:22 137:10,11

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[virtually - witness]

virtually 6:16	waste 171:9	wired 85:3	96:1,10,21 97:10
vis 135:13	watch 104:6	wireless 85:3 86:9	98:7,14 99:17
visit 141:23	way 13:5 18:12	86:11,14,16	100:24,25 101:14
visiting 141:16	19:11 35:24 37:2	118:24 119:2	102:15 103:16,19
vista 7:21,22	40:13 43:20 67:5	123:9 151:2	103:20 104:3,18
visual 175:23	67:12,15 76:23	152:18	105:6,20 106:11
177:20 178:2,20	84:4 87:18,19	wirelessly 118:21	107:12,22 108:12
180:2,3,15	88:15 89:7,10	151:10,19 152:3,9	108:18 109:20
volume 61:17	130:13,24,25	155:6	110:15 111:2,12
89:19 128:20	131:12 134:20	wish 104:11	112:14,20 113:11
162:23 163:1	139:6 146:17	withdraw 204:9	113:18 114:4,25
165:7,11,12,22,25	149:22 152:18	withdrawn 122:7	115:9,18 116:6,23
193:17,25	156:12 163:5	witness 3:3 6:9 7:1	117:7,22,25
volumes 130:13,24	169:6,9 171:5	7:4 11:18 12:10	118:24 119:11,21
132:17 133:12	172:10 180:5	12:11 19:2,3,18,19	120:11 121:3,11
187:12	185:1 187:17	21:16 25:13,22	122:12 123:5,15
vpn 10:25	193:25 203:12	26:12 27:10 30:11	123:22 125:2
vs 1:6,11 213:4	204:3	30:13,14 31:23	126:17,24 127:10
215:1	ways 36:2,7 176:4	32:7,8 34:16,22	127:21 128:4
w	180:8	35:4,12,23 36:6,11	129:14,20 130:3
w 2:11	we've 37:22 38:25	37:1,7,16 40:1,23	130:23 131:6,15
wacker 2:17	51:17 52:17 56:17	42:7,13 44:4,12	132:4,6,11,25
waived 213:23,23	56:21 60:3,6,11,18	46:4,16,24 47:11	133:9 134:2,19
waiving 213:20	74:8 94:23 118:25	47:18 49:8,24	135:5,16 136:1,7
wake 40:3,6	156:12	50:17 51:3,17	137:9,19 139:10
wakes 27:1	week 40:12	52:4,16 53:4,15	139:19 140:9
want 26:21 46:8	weekend 105:10	54:1,11 55:12	141:6,14,21 142:7
56:3 77:7 78:12	105:14,25	56:17 57:6,11	142:14,19 143:4
88:17 111:5	welcome 39:11	58:3,15 60:11,25	143:10,19,25
123:16 128:19	74:19 99:4	63:3,11 65:6,22	144:6,15,18,24
130:25 139:1	went 144:24	66:6,23 67:17	145:13 146:9,16
152:20 172:15	205:11	68:10 69:1,2,11	147:9 148:20
173:4 194:3	wha 1:7,11 6:14	72:5 78:11,14,15	149:12,19 150:18
wanted 10:21	6:15	81:11 82:5,13	151:13,21 152:7
53:19 64:10 75:17	wifi 182:2	83:20 84:4,12,23	152:16,22 153:11
119:13 121:1	willing 12:25	85:9,20 86:5,9,14	156:4,10,24
137:22 179:23	window 11:18	86:22 87:6,14	157:15,24 158:17
180:1,3 188:21,22	windows 10:20	88:4,11,25 89:7	159:19 160:13,22
wants 77:16	33:18 85:23	90:5,18,25 91:14	162:16 163:11,25
110:17	winter 128:22,24	92:1,13 93:3,15,23	164:11,18,25
		94:9,18 95:18	165:16,24 166:2

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[witness - zone]

166:12,22 167:3 167:14 168:1 169:1,19 170:18 170:23 172:23 173:17 174:7,18 176:2,12 177:19 178:10,25 179:6 179:13,19 180:13 180:19 181:7 182:10,24 183:25 185:6,12,24 186:14,15,25 187:1,2,3 188:12 188:20 189:6,19 189:25 190:17 191:1,2,16 192:2,9 192:23 193:1,23 195:5,8,18 196:7 196:20 197:9,20 198:10,25 199:12 199:24 200:8,19 200:20 201:2,10 201:14,23 203:11 203:20,21 204:17 205:5 207:23 208:5,7,8,10,14,22 209:3 210:7 212:6 212:21 213:13,16 214:2,5 215:24 witness's 171:9 word 24:18 32:20 32:20 42:20 43:5 45:11 82:14 87:18 98:19 101:19 132:12 135:6,13 wording 88:12 words 32:25 71:12 80:12 135:7 163:12,13 193:6 work 8:2 65:12,15 65:23,23 104:11	120:3 127:15 144:4 157:1 181:23 193:25 203:11 204:18 205:11 worked 40:2 52:7 67:5,12,14 68:11 69:12,13 74:24 127:19 169:6 193:24 working 20:23 21:11,14 48:16 68:18 202:16 204:4 workplace 8:4 works 127:16 174:8 write 20:10 29:22 32:24 153:18 writes 83:8 130:8 136:16 138:9 140:13 writing 49:16 written 42:2 49:19 49:21 203:17 204:2 207:21 wrong 144:24 191:23 wrote 15:6,17 17:3 20:7,8 32:25 63:15 74:23 76:21 80:23 81:19 94:22 128:10 134:10 138:11 175:13,14 177:8 181:10 193:24 202:13 207:24 209:6	y yamaha 97:24 145:3,7 yamaha's 98:4 yeah 13:12 19:25 63:3,11 65:22 104:7 113:6 119:2 129:14 130:3,23 137:9 146:11 154:21 170:6 180:8 184:5 188:12,20 205:5 208:19 year 21:5 164:12 years 51:18 196:1 196:5 200:1 yep 154:25	67:13,15 68:1,3,3 68:6,7,7,11,15,15 68:16,19,21 69:3,8 69:13,16 70:5,11 70:16 71:9,10,13 71:21 72:13,20,22 73:21 74:24 75:3 75:3,7,8 78:9,22 79:1,16,23 80:9,9 80:19,19,23,24 81:17 82:3,6,11 83:18,21,25 84:8 84:16,17 85:1,4,6 86:17,17,18,24 87:2,6,9,10,16 88:20,21 89:3,3,8 89:11,12,22,24 90:1,10,14 91:5,6 91:11,14 92:10,13 92:16,17,22 93:7 93:12 95:7 96:15 96:24 98:18,20 101:4,5,15 102:2,3 102:5,7,12,12,15 102:16 106:22 107:3,8,18 108:1,2 109:2,8 110:6,8,11 114:5,8,10 115:10 119:7,22 120:15 121:6,7,14,17,17 122:8,14,20 123:5 123:12,18 128:14 128:15 129:15,17 129:22 131:4,10 131:12 132:17,17 132:18,21,25 133:2,7,11,16,24 134:22 136:12,22 136:22 137:10,11 137:14,20 140:15 140:16,18,19
		z zone 5:8 15:17 18:23 20:9,11,21 21:1,7,14,17 22:15 22:19 23:1,9 26:24 27:3,6 31:9 31:19 34:14,20,25 35:9,10,17,20,21 36:3,14,17,21,23 37:5,12 39:18,23 40:13,19,19,21,24 41:9,11,14,16 42:18,20 43:5,11 45:2,23 46:7 48:19 49:2 50:18 54:24,25 55:6,7 57:18 60:7,12,12 60:19,21 61:1,8,10 61:12,13,15,20,25 62:1,16,22 63:6,8 63:12,16,23 64:5 64:11,20,22 65:14 66:3,12,14 67:3,6	
	x x 3:1,8 4:1,3 5:1,5 212:18 214:9		

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

[zone - zp]

141:7,9 153:25	78:8 79:20,25
154:15,25 155:18	81:21,24,25 82:9
155:21 156:1,8,19	83:22 87:17 91:10
158:1,7,14,19,19	92:9,24 93:8
158:20 159:6,10	110:7 113:23
159:11,15,17,19	114:1 115:25
160:5,6,9,19,24	116:1,13,15
161:1,5,9,10,11,12	117:17,17 118:20
161:13,16,18	122:6 130:12
162:1,4,12,17,19	131:13 136:11,24
163:5,5,8 165:5,22	137:2,11,15
166:4,7,8,13,19	138:12,13,14,18
167:4,5,7,11,19,20	138:21,25 139:15
167:20,21,22,22	139:20,23,24
168:14,15,15,17	140:3,4,6,21
169:9,10,15	160:10 161:13,15
172:11 173:3,9,11	161:20 162:7,24
173:11,17,18,20	166:23 167:4,10
182:4 187:12,22	187:7,11 189:4
196:25 197:1,2,2,3	193:11 194:1
197:3,5,7,14,17,22	zoom 1:18 6:17
197:23 198:3,4,4,5	10:15,22 11:2
198:5,6,6,7,11,11	19:11,16 22:11
198:14,15,16,20	30:25 104:21
198:21,22,23	zp 84:18,21 85:7
199:1,2,3,4,7,8,8,9	85:11,12,17 86:7
199:10,12 202:25	86:12,20 87:25
204:18,19 205:3	88:2,7 101:11
207:7,15	114:13,22,23
zones 5:8 42:2,4	115:6,6,7 154:6
42:11,24 43:10,16	155:6 157:10,12
43:19,21,25 44:13	165:10,11 202:21
44:18 45:2,25	
46:7,8,17,20 49:2	
49:3 50:18 55:1,1	
57:18 60:7,19	
62:18 64:1,13	
65:1,3 66:13	
70:11,17 71:1	
73:17 76:24 77:2	
77:5,9,15,17,20	

Federal Rules of Civil Procedure

Rule 30

(e) Review By the Witness; Changes.

(1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:

(A) to review the transcript or recording; and

(B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.

(2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1, 2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

VERITEXT LEGAL SOLUTIONS
COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

Veritext Legal Solutions complies with all federal and State regulations with respect to the provision of court reporting services, and maintains its neutrality and independence regardless of relationship or the financial outcome of any litigation. Veritext requires adherence to the foregoing professional and ethical standards from all of its subcontractors in their independent contractor agreements.

Inquiries about Veritext Legal Solutions' confidentiality and security policies and practices should be directed to Veritext's Client Services Associates indicated on the cover of this document or at www.veritext.com.